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Design guidelines for landmarks to support navigation in virtual environments

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↑ ABSTRACT

Unfamiliar, large-scale virtual environments are difficult to navigate. This paper presents design guidelines to ease navigation in such virtual environments. The guidelines presented here focus on the design and placement of landmarks in virtual environments. Moreover, the guidelines are based primarily on the extensive empirical literature on navigation in the real world. A rationale for this approach is provided by the similarities between navigational behavior in real and virtual environments.

↑ REFERENCES

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- 1 M. Billinghurst, S. Weghorst, The use of sketch maps to measure cognitive maps of virtual environments, Proceedings of the Virtual Reality Annual International Symposium (VRAIS'95), p.40, March 11-15, 1995
- 2 F. P. Brooks, Grasping reality through illusion—interactive graphics serving science, Proceedings of the SIGCHI conference on Human factors in computing systems, p.1-11, May 15-19, 1988, Washington, D.C., United States
- 3 Chase, W. G. Visual information processing, in Handbook of perception and human performance, Vol II: Cognitive processes and performance, K.R. Boff, L. Kaufman, & J.P. Thomas (Eds.), John Wiley and Sons, 1986, pp. 28-1 to 28-71.
- 4 Couclelis, H., Golledge, R. G., Gale, N. D., & Tobler, W. R. Exploring the anchor point hypothesis of spatial cognition, Journal of Environmental Psychology, 7, 1987, 99-122.
- 5 R. P. Darken, W. P. Banker, Navigating in Natural Environments: A Virtual Environment Training Transfer Study, Proceedings of the Virtual Reality Annual International Symposium, p.12, March 14-18, 1998
- 6 Rudy P. Darken, John L. Sibert, A toolset for navigation in virtual environments, Proceedings of the 6th annual ACM symposium on User interface software and technology, p.157-165, December 1993, Atlanta, Georgia, United States
- 7 Rudolph P. Darken, John L. Sibert, Navigating large virtual spaces, International Journal of Human-Computer Interaction, v.8 n.1, p.49-71, Jan.-March 1996
- 8 Evans, G. W. Environmental cognition, Psychological Bulletin, 88, 1980, 259-287.
- 9 Evans, G. W., Marrero, D. G., Buffer, P. A., Environmental learning and cognitive mapping, Environment and Behavior, 13, 1981, 83-104.
- 10 Evans, G. W., Skorpanich, M. A., Garling, T., Bryant, K. J., & Bresolin, B., The effects of pathway configuration, landmarks, and stress on environmental cognition, Journal of Environmental Psychology, 4, 1984, 323-335.
- 11 Evans, G. W., Smith, C. & Pezdek, K., Cognitive maps and urban form, Journal of the American Planning Association, 48, 1982, 232-244.
- 12 Garling, T., Book, A. & Lindberg, E., Cognitive mapping of large-scale environments: The interrelationship of action plans, acquisition, and orientation, Environment and Behavior, 16, 1984, 3- 34.
- 13 Garling, T., Lindberg, E., Carreiras, M. & Björk, A. Reference systems in cognitive maps, Journal of Environmental Psychology, 6, 1986, 1-18.
- 14 Golledge, R. G, Smith, T. R., Pellegrino, J. W., Doherty, S., & Marshall, S. P. A conceptual model and empirical analysis of children's acquisition of spatial knowledge, Journal of Environmental Psychology, 5, 1985, 125-152.
- 15 Golledge, R. G. & Stimson, R. J. Spatial Behavior. The Guilford Press: New York, NY, 1997.
- 16 Hirtle, S. C., & Jonides, J., Evidence of hierarchies in cognitive maps, Memory & Cognition, 13, 1985, 208- 217.
- 17 Kuipers, B., Modeling spatial knowledge, Cognitive Science, 2, 1978, 129-153.

- 18 Lawton, C. A. Gender differences in way-finding strategies: Relationship to spatial ability and spatial anxiety, *Sex Roles*, 30, 11/12, 1994, 765-779.
- 19 Lynch, K. *The Image of the City*. MIT Press: Cambridge, MA, 1960.
- 20 Moar, I., & Bower, G. H., Inconsistency in spatial knowledge, *Memory & Cognition*, 11, 1983, 107-113.
- 21 Montello, D. R. A new framework for understanding the acquisition of spatial knowledge in large-scale environments, in *Spatial and Temporal Reasoning in Geographic Information Systems*, M. J. Eganhofer & R. Golledge (Eds.), Oxford University Press, 1998, 143-154.
- 22 Moore, G. T., Developmental differences in environmental cognition, in *Environmental Design Research*, W. Preisser (Ed.), Dowden, Hutchinson, and Ross: Stroudsburg, PA, 1973.
- 23 Passini, R., Way-finding in complex buildings: An environmental analysis, *Man-Environment Systems*, 10, 1980-31-40.
- 24 Randy Pausch , Tommy Burnette , Dan Brockway , Michael E. Weiblen, Navigation and locomotion in virtual worlds via flight into hand-held miniatures, Proceedings of the 22nd annual conference on Computer graphics and interactive techniques, p.399-400, September 1995
- 25 Rovine, M. J., & Weisman, G. D., Sketch-map variables as predictors of way-finding performance, *Journal of Environmental Psychology*, 9, 1989, 217- 232.
- 26 Ruddle, R. P., Payne, S. J., & Jones, D. M. Navigating buildings in "desk-top" virtual environments: Experimental investigations using extended navigational experience. *Journal of Experimental Psychology: Applied*, 3, 2, 1997, 143-159.
- 27 Song, D. & Norman, M. Nonlinear interactive motion control techniques for virtual space navigation, in *Proceedings of IEEE 1993 Virtual Reality Annual international Symposium*, IEEE Computer Society: Los Alamitos, CA, 1993, 111-117.
- 28 Stevens, A., & Coupe, P., Distortions in judged spatial relations, *Cognitive psychology*, 10, 1978, 422-437.
- 29 Thorndyke, P. W., & Hayes-Roth, B. Differences in spatial knowledge acquired from maps and navigation, *Cognitive Psychology*, 14, 1982, 560-589.
- 30 Tversky, B., Distortions in memory for maps, *Cognitive Psychology*, 13, 1981, 407-433.
- 31 Barbara Tversky , Nancy Franklin , Holly A. Taylor , David J. Bryant, Spatial mental models from descriptions, Journal of the American Society for Information Science, v.45 n.9, p.656-668, Oct. 1994
- 32 Ware, C. & Slipp, L. Using velocity control to navigate 3D graphical environments: A comparison of three interfaces, in *Proceedings of the Human Factors Society 35th Annual Meeting*, (San Francisco, CA, Sept. 1991), Human Factors Society: Santa Monica, CA, 300-304.
- 33 Whitaker, L. A. Getting around in the natural world. *Ergonomics in Design*, 4, 3, 1996, 11-15.
- 34 Whitaker, L. A., & Cuglock-Knopp, G. Navigation in off-road environments: Orienteering interviews. *Scientific Journal of Orienteering*, 8, 1992, 55-71.

35 Wickens, C. D. Engineering Psychology and Human Performance, 2nd ed. Harper Collins Publishers Inc.: New York, 1992.

↑ CITINGS 22

D. Grammenos , M. Filou , P. Papadakos , C. Stephanidis, Virtual Prints: leaving trails in virtual environments, Proceedings of the workshop on Virtual environments 2002, May 30-31, 2002, Barcelona, Spain

Susanne Jul, A framework for locomotional design: toward a generative design theory, CHI '02 extended abstracts on Human factors in computer systems, April 20-25, 2002, Minneapolis, Minnesota, USA

Christian Jacquemin , Michèle Jardino, Une interface 3D multi-échelle pour la visualisation et la navigation dans de grands documents XML, Proceedings of the 14th French-speaking conference on Human-computer interaction (Conférence Francophone sur l'Interaction Homme-Machine), p.263-266, November 26-29, 2002, Poitiers, France

Cathryn Johns , Edwin Blake, Cognitive maps in virtual environments: facilitation of learning through the use of innate spatial abilities, Proceedings of the 1st international conference on Computer graphics, virtual reality and visualisation, November 05-07, 2001, Camps Bay, Cape Town, South Africa

Alex van Ballegooij , Anton Eliéns, Navigation by query in virtual worlds, Proceedings of the sixth international conference on 3D Web technology, p.77-83, February 2001, Paderbon, Germany

Dong Hyun Jeong , Young Hye Jeon , Jeom Keun Kim , Songyong Sim , Chang Geun Song, Force-based velocity control technique in immersive V.E., Proceedings of the 2nd international conference on Computer graphics and interactive techniques in Australasia and Southe East Asia, June 15-18, 2004, Singapore

Luca Chittaro , Lucio Ieronutti, A visual tool for tracing users' behavior in Virtual Environments, Proceedings of the working conference on Advanced visual interfaces, May 25-28, 2004, Gallipoli, Italy

Luca Chittaro , Stefano Burigat, 3D location-pointing as a navigation aid in Virtual Environments, Proceedings of the working conference on Advanced visual interfaces, May 25-28, 2004, Gallipoli, Italy

Zayd Hendricks , Jakkaphan Tangkuampien , Katherine Malan, Virtual galleries: is 3D better?, Proceedings of the 2nd international conference on Computer graphics, virtual Reality, visualisation and interaction in Africa, February 03-05, 2003, Cape Town, South Africa

Luca Chittaro , Ivan Scagnetto, Is semitransparency useful for navigating virtual environments?, Proceedings of the ACM symposium on Virtual reality software and technology, November 15-17, 2001, Baniff, Alberta, Canada

Jason Elliott , Amy Bruckman, Design of a 3D interactive math learning environment, Proceedings of the conference on Designing interactive systems: processes, practices, methods, and techniques, June 25-28, 2002, London, England

Luca Chittaro , Roberto Ranon , Lucio Ieronutti, Guiding visitors of Web3D worlds through automatically generated tours, Proceeding of the eighth international conference on 3D Web technology, March 09-12, 2003, Saint Malo, France

- Augusto Celentano , Fabio Pittarello, Observing and adapting user behavior in navigational 3D interfaces, Proceedings of the working conference on Advanced visual interfaces, May 25-28, 2004, Gallipoli, Italy

Mark A. Neerincx , Jasper Lindenberg , Steven Pemberton, Support concepts for Web navigation: a cognitive engineering approach, Proceedings of the tenth international conference on World Wide Web, p.119-128, May 01-05, 2001, Hong Kong, Hong Kong

Mary Czerwinski , Desney S. Tan , George G. Robertson, Women take a wider view, Proceedings of the SIGCHI conference on Human factors in computing systems: Changing our world, changing ourselves, April 20-25, 2002, Minneapolis, Minnesota, USA

Desney S. Tan , George G. Robertson , Mary Czerwinski, Exploring 3D navigation: combining speed-coupled flying with orbiting, Proceedings of the SIGCHI conference on Human factors in computing systems, p.418-425, March 2001, Seattle, Washington, United States

Augusto Celentano , Michele Nodari, Adaptive interaction in Web3D virtual worlds, Proceedings of the ninth international conference on 3D Web technology, April 05-08, 2004, Monterey, California

Nicholas Burtnyk , Azam Khan , George Fitzmaurice , Ravin Balakrishnan , Gordon Kurtenbach, StyleCam: interactive stylized 3D navigation using integrated spatial & temporal controls, Proceedings of the 15th annual ACM symposium on User interface software and technology, October 27-30, 2002, Paris, France

Michael A. Katz , Michael D. Byrne, Effects of scent and breadth on use of site-specific search on e-commerce Web sites, ACM Transactions on Computer-Human Interaction (TOCHI), v.10 n.3, p.198-220, September 2003

Cathryn Johns, Spatial learning: cognitive mapping in abstract virtual environments, Proceedings of the 2nd international conference on Computer graphics, virtual Reality, visualisation and interaction in Africa, February 03-05, 2003, Cape Town, South Africa

Kasper Hornbæk , Benjamin B. Bederson , Catherine Plaisant, Navigation patterns and usability of zoomable user interfaces with and without an overview, ACM Transactions on Computer-Human Interaction (TOCHI), v.9 n.4, p.362-389, December 2002

Avi Parush , Dafna Berman, Navigation and orientation in 3D user interfaces: the impact of navigation aids and landmarks, International Journal of Human-Computer Studies, v.61 n.3, p.375-395, September 2004

↑ INDEX TERMS

Primary Classification:

H. Information Systems

↳ H.5 INFORMATION INTERFACES AND PRESENTATION (I.7)

↳ H.5.4 Hypertext/Hypermedia

↳ **Subjects:** Navigation

Additi nal Classification:

I. Computing Methodologies

↳ I.6 SIMULATION AND MODELING

General Terms:

Design, Experimentation

Keywords:

guidelines, landmarks, navigation, virtual environments, virtual reality, wayfinding

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Computer-Aided Design, 1996. ICCAD-96. Digest of Technical Papers., 1996
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[\[Abstract\]](#) [\[PDF Full-Text \(576 KB\)\]](#) **IEEE CNF**

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Hyeoun-Dong Lee; Seung-Ki Sul;

Industrial Electronics, IEEE Transactions on , Volume: 45 Issue: 4 , Aug. 1998

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[\[Abstract\]](#) [\[PDF Full-Text \(308 KB\)\]](#) **IEEE JNL**

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7 A new approach to map matching for in-vehicle navigation systems: the rotational variation metric

Joshi, R.R.;

Intelligent Transportation Systems, 2001. Proceedings. 2001 IEEE , 25-29 Aug. 2001

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[\[Abstract\]](#) [\[PDF Full-Text \(336 KB\)\]](#) **IEEE CNF**

8 Ultra-wideband continuous-wave random noise arc-SAR

Garmatyuk, D.S.; Narayanan, R.M.;

Geoscience and Remote Sensing, IEEE Transactions on , Volume: 40 Issue: 12 , Dec. 2002

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[\[Abstract\]](#) [\[PDF Full-Text \(766 KB\)\]](#) **IEEE JNL**

9 Nonlinear dynamics of a semiconductor laser with delayed negative optoelectronic feedback

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Quantum Electronics, IEEE Journal of , Volume: 39 Issue: 4 , April 2003

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1 Rendering effective route maps: improving usability through generalization

Maneesh Agrawala, Chris Stolte

August 2001 **Proceedings of the 28th annual conference on Computer graphics and interactive techniques**

Full text available: pdf(2.23 MB) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

Route maps, which depict a path from one location to another, have emerged as one of the most popular applications on the Web. Current computer-generated route maps, however, are often very difficult to use. In this paper we present a set of cartographic generalization techniques specifically designed to improve the usability of route maps. Our generalization techniques are based both on cognitive psychology research studying how route maps are used and on an analysis of the generalizations c ...

Keywords: WWW applications, human factors, information visualization, non-realistic rendering

2 MaPS: movement and planning support for navigation in an immersive VRML browser

John D. M. Edwards, Chris Hand

February 1997 **Proceedings of the second symposium on Virtual reality modeling language**


Full text available: pdf(1.14 MB) Additional Information: [full citation](#), [references](#), [citations](#), [index terms](#)

Keyw rds: VRML2, first-class user interface, immersive browser, navigation techniques, user interface metaphors

3 Full Technical Papers: Presenting route instructions on mobile devices

Christian Kray, Christian Elting, Katri Laakso, Volker Coors

January 2003 **Proceedings of the 8th international conference on Intelligent user interfaces**

Full text available:  [pdf\(434.46 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

In this paper, we evaluate several means of presenting route instructions to a mobile user. Starting from an abstract language-independent description of a route segment, we show how to generate various presentations for a mobile device ranging from spoken instructions to 3D visualizations. We then examine the relationship between the quality of positional information, available resources and the different types of presentations. The paper concludes with guidelines that help to determine which p ...

Keywords: mobile devices, multimodal presentations, positional information, route instructions

4 Dynamic route descriptions: tradeoffs by usage goals and user characteristics

C. M. Chewar, D. Scott McCrickard

June 2002 **Proceedings of the 2nd international symposium on Smart graphics**

Full text available:  [pdf\(1.32 MB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#)


Principles are empirically established for various multimodal representations of route descriptions that are found to facilitate aspects of user navigation performance on significantly different levels. Some representations clearly minimize navigation completion time, navigation error, and/or distraction to focal view, while others hinder these goals. Furthermore, user characteristics such as brain lateralization and information type preference relate to significant differences in representation ...

Keywords: dynamic information design, notification systems, route descriptions, secondary displays, way-finding

5 Graphical information resources: maps and beyond

Michael Lesk

June 1985 **Proceedings of the 8th annual international ACM SIGIR conference on Research and development in information retrieval**

Full text available:  [pdf\(684.26 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#)


The rise of computer graphics offers a new challenge for information retrieval: how to search and retrieve information which is partly or wholly graphical. As an example, procedures for handling geographical information, such as street maps and directories are explained. With this data, it is possible to find routes on maps, retrieve locations and names of people or businesses, and draw maps. But a comparison of these programs with programs for face processing or computer typesetting makes ...


6

Work-preserving emulations of fixed-connection networks

Richard R. Koch, F. T. Leighton, Bruce M. Maggs, Satish B. Rao, Arnold L. Rosenberg, Eric J. Schwabe

January 1997 **J urnal of the ACM (JACM)**, Volume 44 Issue 1

Full text available:  [pdf\(719.89 KB\)](#) Additional Information: [full citation](#), [references](#), [citing](#)s, [index terms](#), [review](#)




Keywords: graph embeddings, network emulations, parallel architectures, processor arrays


7

Balanced routing: towards the distance bound on grids

Manfred Kunde

June 1991 **Proceedings of the third annual ACM symposium on Parallel algorithms and architectures**

Full text available:  [pdf\(1.35 MB\)](#) Additional Information: [full citation](#), [references](#), [citing](#)s, [index terms](#)





8

Structured permuting in place on parallel disk systems

Leonard F. Wisniewski

May 1996 **Proceedings of the fourth workshop on I/O in parallel and distributed systems: part of the federated computing research conference**

Full text available:  [pdf\(1.33 MB\)](#) Additional Information: [full citation](#), [references](#), [index terms](#)





9

Using name-based mappings to increase hit rates

David G. Thaler, Chinya V. Ravishankar

February 1998 **IEEE/ACM Transactions on Networking (TON)**, Volume 6 Issue 1

Full text available:  [pdf\(408.98 KB\)](#) Additional Information: [full citation](#), [references](#), [citing](#)s, [index terms](#)




Keywords: World Wide Web, caching, client-server systems, computer networks, distributed agreement, multicast routing, proxies


10

Movie-maps: An application of the optical videodisc to computer graphics

Andrew Lippman

July 1980 **ACM SIGGRAPH Computer Graphics , Proceedings of the 7th annual conference on Computer graphics and interactive techniques**, Volume 14 Issue 3

Full text available:  [pdf\(3.90 MB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [citing](#)s, [index terms](#)



An interactive, dynamic map has been built using videodisc technology to engage the user in a simulated "drive" through an unfamiliar space. The driver, or map reader, is presented with either sparsely sampled sequences of images taken by


single frame cameras that replicate actual imagery from a space, or with computer synthesized replicas of those images. The reader may control the speed, route, angle of view and mode of presentation of this information and may thus tour the ar ...

Keyw rds: Anamorphic imagery, Computer generated imagery, Image processing, Interactive systems, Optical videodisc

11 MAP/1 tutorial

Laurie J. Rolston, Robin J. Miner

December 1985 **Proceedings of the 17th conference on Winter simulation**

Full text available:  [pdf\(674.46 KB\)](#)


Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#)

MAP/1 is a simulation-based Modeling and Analysis Program developed by Pritsker & Associates for use in designing and evaluating discrete part manufacturing systems. MAP/1 is a generalized model of a discrete part manufacturing system, which is parameterized to represent a specific manufacturing facility. Parameters which describe the manufacturing facility configuration and associated operating rules are input to the MAP/1 analysis program, which produces a set of predefined output rep ...

12 A distributed routing algorithm for datagram traffic in LEO satellite networks

Eylem Ekici, Ian F. Akyildiz, Michael D. Bender

April 2001 **IEEE/ACM Transactions on Networking (TON)**, Volume 9 Issue 2

Full text available:  [pdf\(225.02 KB\)](#)

Additional Information: [full citation](#), [references](#), [citations](#), [index terms](#)

Keywords: connectionless/datagram routing, low earth orbit (LEO), satellite networks

13 VLSI cell placement techniques

K. Shahookar, P. Mazumder

June 1991 **ACM Computing Surveys (CSUR)**, Volume 23 Issue 2

Full text available:  [pdf\(5.28 MB\)](#)

Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#), [review](#)

VLSI cell placement problem is known to be NP complete. A wide repertoire of heuristic algorithms exists in the literature for efficiently arranging the logic cells on a VLSI chip. The objective of this paper is to present a comprehensive survey of the various cell placement techniques, with emphasis on standard cell and macro placement. Five major algorithms for placement are discussed: simulated annealing, force-directed placement, min-cut placement, placement by numerical optimization, a ...


Keyw rds: VLSI, floor planning, force-directed placement, gate array, genetic algorithm, integrated circuits, layout, min-cut, physical design, placement, simulated annealing, standard cell

14 Overlays: Peer-to-peer information retrieval using self-organizing semantic overlay networks



Chunqiang Tang, Zhichen Xu, Sandhya Dwarkadas

August 2003 **Proceedings of the 2003 conference on Applications, technologies, architectures, and protocols for computer communications**

Full text available:  [pdf\(278.25 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

Content-based full-text search is a challenging problem in Peer-to-Peer (P2P) systems. Traditional approaches have either been centralized or use flooding to ensure accuracy of the results returned. In this paper, we present pSearch, a decentralized non-flooding P2P information retrieval system. pSearch distributes document indices through the P2P network based on document semantics generated by Latent Semantic Indexing (LSI). The search cost (in terms of different nodes searched and data transmi ...

Keywords: information retrieval, overlay network, peer-to-peer system

15 The turn model for adaptive routing



Christopher J. Glass, Lionel M. Ni

September 1994 **Journal of the ACM (JACM)**, Volume 41 Issue 5

Full text available:  [pdf\(2.01 MB\)](#) Additional Information: [full citation](#), [references](#), [citations](#), [index terms](#)

Keywords: adaptive routing, deadlock, hypercube, massively parallel computers, mesh topology, wormhole routing

16 Jump map-based interactive texture synthesis



Steve Zelinka, Michael Garland

October 2004 **ACM Transactions on Graphics (TOG)**, Volume 23 Issue 4

Full text available:  [pdf\(529.89 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)


We present techniques for accelerated texture synthesis from example images. The key idea of our approach is to divide the task into two phases: analysis, and synthesis. During the analysis phase, which is performed once per sample texture, we generate a *jump map*. Using the jump map, the synthesis phase is capable of synthesizing texture similar to the analyzed example at interactive rates. We describe two such synthesis phase algorithms: one for creating images, and one for di ...

Keywords: Interactive texture synthesis, jump maps, texturing surfaces

17 Status report of the graphic standards planning committee

Computer Graphics staff

August 1979 **ACM SIGGRAPH Computer Graphics**, Volume 13 Issue 3


Full text available:  [pdf\(15.01 MB\)](#)

Additional Information: [full citation](#), [references](#), [citations](#)

18 Constructive exploration of spatial information by blind users

Jochen Schneider, Thomas Strothotte

November 2000 **Proceedings of the fourth international ACM conference on Assistive technologies**

Full text available:  [pdf\(234.99 KB\)](#)


Additional Information: [full citation](#), [references](#), [index terms](#)

Keywords: augmented reality, blind users, force feedback devices, orientation aids

19 Session A: Applications in VR: Spatial learning: cognitive mapping in abstract virtual environments

Cathryn Johns

February 2003 **Proceedings of the 2nd international conference on Computer graphics, virtual Reality, visualisation and interaction in Africa**

Full text available:  [pdf\(454.20 KB\)](#)

Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)


This paper presents the novel idea of using the cognitive mapping process to teach relationships between data items, called the spatial learning method. To investigate the feasibility of the method, a VE based on a data set was created. Three studies using this VE were run concurrently on a single set of 40 participants. The findings showed that while most participants formed a cognitive map of the VE, the learning of the underlying data set varied greatly between participants and that participa ...

Keywords: cognitive maps, navigation, spatial information, teaching, virtual reality, visualization

20 Draft Proposed: American National Standard—Graphical Kernel System

Technical Committee X3H3 - Computer Graphics

February 1984 **ACM SIGGRAPH Computer Graphics**, Volume 18 Issue SI

Full text available:  [pdf\(16.07 MB\)](#)

Additional Information: [full citation](#)

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21 Fast detection of communication patterns in distributed executions

Thomas Kunz, Michiel F. H. Seuren

November 1997 **Proceedings of the 1997 conference of the Centre for Advanced Studies on Collaborative research**

Full text available: pdf(4.21 MB) Additional Information: full citation, abstract, references, index terms

Understanding distributed applications is a tedious and difficult task. Visualizations based on process-time diagrams are often used to obtain a better understanding of the execution of the application. The visualization tool we use is Poet, an event tracer developed at the University of Waterloo. However, these diagrams are often very complex and do not provide the user with the desired overview of the application. In our experience, such tools display repeated occurrences of non-trivial commun ...

22 P2: Design concepts for learning spatial relationships

Giuliano Benelli, Maurizio Caporali, Antonio Rizzo, Elisa Rubegni

October 2001 **Proceedings of the 19th annual international conference on Computer documentation**

Full text available: pdf(1.26 MB) Additional Information: full citation, abstract, references, index terms

Maps are cognitive artifacts that represent not only the characteristics of the information space but also the use people make of the space. There are three privileged modalities by which humans learn the relationships in existing spaces: path-based learning, landmark-based learning and survey learning. These three modalities are differently sustained by maps and by the real environments. Maps afford Simultaneous experience of the space, Single point of view, Survey knowledge, Secondary spatial ...

Keyw rds: information design, map, spatial learning

23 Map morphing: making sense of incongruent maps.


Derek F. Reilly, Kori M. Inkpen

May 2004 **Proceedings of the 2004 conference on Graphics interface**Full text available:  [pdf\(1.70 MB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#)

Map morphing is an interactive visualization technique that provides a user-controlled, animated translation from one map to another. Traditionally, overlay mechanisms are used to present layers of information over a single projection. Map morphing provides a way to relate maps with significant spatial and schematic differences. This paper presents the morphing technique and the results of a comparative evaluation of map morphing against standard ways of presenting related maps. Our results demo ...

Keywords: GIS, information visualization, interaction design, morphing**24 Design guidelines for landmarks to support navigation in virtual environments**

Norman G. Vinson

May 1999 **Proceedings of the SIGCHI conference on Human factors in computing systems: the CHI is the limit**Full text available:  [pdf\(1.04 MB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)


Unfamiliar, large-scale virtual environments are difficult to navigate. This paper presents design guidelines to ease navigation in such virtual environments. The guidelines presented here focus on the design and placement of landmarks in virtual environments. Moreover, the guidelines are based primarily on the extensive empirical literature on navigation in the real world. A rationale for this approach is provided by the similarities between navigational behavior in real and virtual ...

Keywords: guidelines, landmarks, navigation, virtual environments, virtual reality, wayfinding**25 A rule-based system for dense-map name placement**

Jeffrey S. Doerschler, Herbert Freeman

January 1992 **Communications of the ACM**, Volume 35 Issue 1Full text available:  [pdf\(4.09 MB\)](#) Additional Information: [full citation](#), [references](#), [citations](#), [index terms](#)**26 Routing L-shaped channels in nonslicing-structure placement**

H. H. Chen

October 1987 **Proceedings of the 24th ACM/IEEE conference on Design automation**Full text available:  [pdf\(722.03 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)


The concept of L-shaped channels was first introduced in RRDO [1] to generate a feasible routing order for nonslicing-structure placement in building-block layout design. This paper presents two approaches for the L-shaped channel-routing

problem. In the Manhattan approach, only horizontal and vertical wires are used. The L-shaped channel is divided into two subchannels. The vertical subchannel will be routed first, then the horizontal subchannel will be routed by a special ...

27 Simulation-based real-time decision making for route planning

Jin Joo Lee, Paul A. Fishwick


December 1995 **Proceedings of the 27th conference on Winter simulation**

Full text available:  [pdf\(806.45 KB\)](#) Additional Information: [full citation](#), [references](#), [citations](#), [index terms](#)

28 NoC design and optimisation: Power-aware communication optimization for networks-on-chips with voltage scalable links

Dongkun Shin, Jihong Kim

September 2004 **Proceedings of the 2nd IEEE/ACM/IFIP international conference on Hardware/software codesign and system synthesis**

Full text available:  [pdf\(122.24 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

Networks-on-Chip (NoC) is emerging as a practical development platform for future systems-on-chip products. We propose an energy-efficient static algorithm which optimizes the energy consumption of task communications in NoCs with voltage scalable links. In order to find optimal link speeds, the proposed algorithm (based on a genetic formulation) globally explores the design space of NoC-based systems, including task assignment, tile mapping, routing path allocation, task scheduling and link spe ...

Keywords: low-power design, network-on-chip, real-time systems

29 Interactive manipulation and display of surfaces in four dimensions

David Banks


June 1992 **Proceedings of the 1992 symposium on Interactive 3D graphics**

Full text available:  [pdf\(1.41 MB\)](#) Additional Information: [full citation](#), [references](#), [citations](#), [index terms](#)

30 MAPS: a generalized image processor

Michael Fischer

September 1973 **ACM SIGGRAPH Computer Graphics**, Volume 7 Issue 3


Full text available:  [pdf\(769.35 KB\)](#) Additional Information: [full citation](#), [abstract](#), [citations](#)

By approaching two and three-dimensional problems from the spatial viewpoint taken by the geographic sciences, the <u>M</u>ulti-dimensional <u>A</u>nalysis <u>P</u>rocessing <u>S</u>ystem (MAPS) is able to achieve high efficiency and large capacity in many types of interactive graphics, simulation modeling, and image processing. Spatial relationships are presented by means of color images, rather than line drawings, facilitating interpretation and ...

31 The evolution of perspective view in WalkMap



Riku Suomela, Kimmo Roimela, Juha Lehtikoinen
October 2003 **Pers n al and Ubiquitous C mputing**, Volume 7 Issue 5

Full text available:  [pdf\(485.11 KB\)](#) Additional Information: [full citation](#), [abstract](#), [index terms](#)


A wearable computer is a potential platform for map applications: it is mobile in nature, and is often equipped with a head-worn display capable of displaying maps of the surrounding area in graphical form. In this paper, we present a map application, called WalkMap, developed for wearable computers. We concentrate on the visual presentation of the map, and propose a visualisation method that is based on the perspective distortion of a regular two-dimensional bird's-eye view map. We also describ ...

Keywords: Map, Navigation, Perspective, Three-dimensional, User study, Wearable computing

32 Deterministic on-line routing on area-universal networks



Paul Bay, Gianfranco Bilardi
May 1995 **Journal of the ACM (JACM)**, Volume 42 Issue 3

Full text available:  [pdf\(1.96 MB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [citing](#)s, [index terms](#)


Two deterministic routing networks are presented: the pruned butterfly and the sorting fat-tree. Both networks are area-universal, that is, they can simulate any other routing network fitting in similar area with polylogarithmic slowdown. Previous area-universal networks were either for the off-line problem, where the message set to be routed is known in advance and substantial precomputation is permitted, or involved randomization, yielding results that ho ...

Keywords: area-universal, fat-tree, general purpose

33 High-speed visual estimation using preattentive processing



Christopher G. Healey, Kellogg S. Booth, James T. Enns
June 1996 **ACM Transactions on Computer-Human Interaction (TOCHI)**, Volume 3 Issue 2

Full text available:  [pdf\(1.20 MB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [citing](#)s, [index terms](#), [review](#)

A new method is presented for performing rapid and accurate numerical estimation. The method is derived from an area of human cognitive psychology called preattentive processing. Preattentive processing refers to an initial organization of the visual field based on cognitive operations believed to be rapid, automatic, and spatially parallel. Examples of visual features that can be detected in this way include hue, intensity, orientation, size, and motion. We beleive that studies from preatt ...

Keywords: Munsell, boundary detection, cognitive psychology, color, estimation, human vision, icon, multidimensional data, orientation, preattentive, scientific visualization, target detection

34 On randomization in sequential and distributed algorithms

Rajiv Gupta, Scott A. Smolka, Shaji Bhaskar

March 1994 **ACM Computing Surveys (CSUR)**, Volume 26 Issue 1

Full text available:  [pdf\(8.01 MB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

Probabilistic, or randomized, algorithms are fast becoming as commonplace as conventional deterministic algorithms. This survey presents five techniques that have been widely used in the design of randomized algorithms. These techniques are illustrated using 12 randomized algorithms—both sequential and distributed—that span a wide range of applications, including: primality testing (a classical problem in number theory), interactive probabilistic proofs ...

Keywords: Byzantine agreement, CSP, analysis of algorithms, computational complexity, dining philosophers problem, distributed algorithms, graph isomorphism, hashing, interactive probabilistic proof systems, leader election, message routing, nearest-neighbors problem, perfect hashing, primality testing, probabilistic techniques, randomized or probabilistic algorithms, randomized quicksort, sequential algorithms, transitive tournaments, universal hashing

35 Constrained optimal framings of curves and surfaces using quaternion Gauss maps

Andrew J. Hanson

October 1998 **Proceedings of the conference on Visualization '98**

Full text available:  [pdf\(1.14 MB\)](#) Additional Information: [full citation](#), [references](#), [citations](#), [index terms](#)
 [Publisher Site](#)

Keywords: curves, frames, quaternions, surfaces, tubing

36 Computer Processing of Line-Drawing Images

Herbert Freeman

January 1974 **ACM Computing Surveys (CSUR)**, Volume 6 Issue 1

Full text available:  [pdf\(3.18 MB\)](#) Additional Information: [full citation](#), [references](#), [citations](#), [index terms](#)

37 Interaction: Automatic derivation of electronic maps from X3D/VRML worlds

Lucio Ieronutti, Roberto Ranon, Luca Chittaro

April 2004 **Proceedings of the ninth international conference on 3D Web technology**

Full text available:  [pdf\(837.68 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

Maps of physical environments and geographical areas are pervasively exploited in many human activities. Electronic maps of virtual worlds have been studied and proven to be useful as navigation aids to help users in finding their way through the 3D world. The contribution of this paper is twofold. In the first part, we propose an

automatic method for the derivation of electronic maps from Web3D worlds which is based on standard X3D/VRML nodes, and can thus be run by any X3D/VRML browser. In the ...

Keywords: electronic maps, navigation aids



38 Interactive Posters: What should it do?: key issuses in navigation interface design for small screen devices

Inger Ekman, Petri Lankoski

April 2002 **CHI '02 extended abstracts on Human factors in computing systems**

Full text available: pdf(108.07 KB)

Additional Information: [full citation](#), [abstract](#), [references](#), [citing](#)

One important application area for location-aware mobile devices is offering navigational support. This paper summarizes the results of preliminary user tests with different navigation interfaces designed for small screens. We focus on the effectiveness vs. likeability of the interface and explore how these two aspects can be combined to support the navigational task of the user. Our research shows, that offering rich contextual information can support the navigational task by providing the user ...

Keywords: interface design, mobile navigation, navigation, small screen devices



39 Gross motion planning—a survey

Yong K. Hwang, Narendra Ahuja

September 1992 **ACM Computing Surveys (CSUR)**, Volume 24 Issue 3

Full text available: pdf(6.40 MB)

Additional Information: [full citation](#), [abstract](#), [references](#), [citing](#), [index terms](#), [review](#)

Motion planning is one of the most important areas of robotics research. The complexity of the motion-planning problem has hindered the development of practical algorithms. This paper surveys the work on gross-motion planning, including motion planners for point robots, rigid robots, and manipulators in stationary, time-varying, constrained, and movable-object environments. The general issues in motion planning are explained. Recent approaches and their performances are briefly described, a ...

Keywords: collision detection, computational geometry, implementation, motion planning, obstacle avoidance, path planning, spatial representation



40 Structured design implementation: a strategy for implementing regular datapaths on FPGAs

Andreas Koch

February 1996 **Proceedings of the 1996 ACM fourth international symposium on Field-programmable gate arrays**

Full text available: pdf(328.84 KB)

Additional Information: [full citation](#), [references](#), [citing](#), [index terms](#)

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 (c)

Rotate the map and compass in the direction of the declination diagram. ...

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Lunar **Rotation** and Flyby from Clementine Data (with **route map**). Clementine was a joint project between the Strategic Defense Initiative Organization and NASA. ...
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... 660, Mars **Rotat** (False Color). 659, Mars **Rotate** (True Color). ... 79, Lunar

Rotation and Flyby from Clementine Data (with **route map**).

svs.gsfc.nasa.gov/search/Scientist/SmithDavid.html - 40k - Jan 1, 2005 -

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TerraExplorer Quick Guide Map Information

... the left button is still pressed, to the eight areas of the 3D View to **rotate** around and ... Pause - Select this option to halt a **route** pre-defined flight path. ...

www.skylinesoft.com/interactive/terraexplorer/texp_quickguide_menu.asp - 10k -

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iambic, Inc. - Productivity and games software for Palm and ...

... positions; **Rotate**, Zoom, Scroll and add/remove detail for easy **map** viewing;

Easily change destination mid-**route** if your schedule changes; ...

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... routes will be recalculated once you deviate from your precalculated **route**. ... use only

for turn manoeuvres automatic **map rotation** (GPS) **rotate map** in steps of ...

www.transplantcomputing.com/downloads/Navigator%201.1%20User%20manual.pdf -

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Relationship among Environmental Pointing Accuracy, Mental ...

... among Environmental Pointing Accuracy, Mental **Rotation**, Sex, and ... Acquisition of **route**

network knowledge by males and females ... The hippocampus as a cognitive **map**. ...

eab.sagepub.com/cgi/content/refs/36/2/251 - Similar pages

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... maps: some users had to **rotate** the device ... **map** corresponded to the automatically adapted

egocentric **map**. ... in straight direction related to the prescribed **route**. ...

www.hci.iao.fraunhofer.de/.../

HermannBieberDuesterhoeft2003_Egocentric_Maps__IMC_03_Rost_.pdf -

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KingMAP2 USA-Florida E-Map on PocketGear.com

... tracking record/ save/ playback . GPS on move **map rotation**/ automatic **map** zooming

. GPS legend switching (6 legends) . GPS **route** alteration (software ...
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[dodmaps.com | supporting the community since august 2001](#)

... actually almost half of the current CAL **map rotation** consists of ... every class in an effective way on this **map**. ... The long **route** towards one of the Allied flags. ...
www.dodmaps.com/index.php?showpage=public/ articles/cotm/cotm_04_04/index.htm
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[NaliCity 3 - Map Hub - CTF-Orodruin](#)

... They don't go out on the outer terrain that I saw very often, only when I grabbed the flag and took that **route** they did follow ... Servers With **Map** in **Map Rotation**. ...
nalicity.beyondunreal.com/map_hub.php?mid=6944 - 73k - [Cached](#) - [Similar pages](#)

[Adding Your Own Maps and Places](#)

... 7. **Route** and Turn-By-Turn Guidance .ROO and .RGI files 8. Sounds linked to categories
and names \$*.WAV #*.WAV 9. More Information linked to AVI ... **Map Rotation** 13 ...
www.gpss.co.uk/addmaps2.htm - 23k - [Cached](#) - [Similar pages](#)

[OA Guide to Map and Compass - Text version](#)

... It's better to anticipate a longer **route** than a shorter ... magnetic field causes the needle to **rotate** until it ... magnetic north (marked as MN on a topographic **map**). ...
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[Using the 3D Options Window](#)

... be set for both azimuthal and horizontal **rotation**, however animation ... used for enable /
disabling contour and **route** plotting ... are drawn on the 3D **map** as slightly ...
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... in no particular order) 1) **map rotation** 2) ability ... view 5) ability to set background colour of **map** bg 6 ... etc 7) ability to query if coords are on **route** to enable ...
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[ROTATE-98](#)

... standby starting ~08 September, DOW3 only **ROTATE-00** starts ... **Route Map**,
Deployment
Map; 990422 Mission to Tulsa, OK area ... **Map**; 990427/8 Mission to Plainview, TX
area ...
aaron.ou.edu/projects/rotat /rotate-99.html - 10k - [Cached](#) - [Similar pages](#)

[PDF] [PO 405 MAP AND COMPASS](#)

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... aided by remembering: Control, Attack point, **Rout** , Tempo, and ... oriented to the top

of the **map** (north); d ... mils and not degrees – simply **rotate** the protractor ...

www.cadets.ca/_docs/army-armée/pocket-poche/A-CR-CCP-120-405_e.pdf -

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Palm Software: Travel --> GPS

... Real-time 360 degree **map rotation**, GPS position, tracking indication. ... **Route** USA by

TomTom, **Route** is a sophisticated Road **Map** and **Route** Planning application. ...

applications.palmsource.com/Software/Solutions.asp?PCID=28&PSCID=92&offset=20

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Palm Software: Travel --> City Guides

... Real-time 360 degree **map rotation**, GPS position, tracking indication.

... With a tap

on the **map** user can request the ... way to get there, or the shortest **route** to take ...

[applications.palmsource.com/Software/](http://applications.palmsource.com/Software/Solutions.asp?PCID=28&PSCID=76&offset=100)

Solutions.asp?PCID=28&PSCID=76&offset=100 - 41k -

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Products

... The enhanced features such as **map rotation**, Point-to-Point routing, **Route** Optimization,

geocoding and reverse geocoding provide the perfect tool for advanced ...

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MapOCX Pro

... On-the-fly **map rotation**, and a specialized “Heads-Up” mode allows the user to **rotate**

map data to ... important additions is the Optimized **Route** Solution (ORS

...

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channel4.com - Superhuman - Navigation Test

... They now needed to **rotate** the mental image of the **map** ... with regard to the time taken

to complete the **route**. ... tied after that, their sketches of the **map** were used ...

www.channel4.com/science/microsites/S/superhuman/tests/navigation/navigation.html

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User guide

... mark a favorite campsite or highlight the best **route** to some ... Select "**Rotate Map**" from the popup menu. ... A **rotation** tool will be displayed at this location on ...
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Route knowledge in different spatial frames of reference.

... The **route** length (Experiment 1), and the need to reverse the direction of the ... In Experiment 3, the **map-rotation** strategy was found to be pertinent for solving ...
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... Associated with preferred navigation pattern. **Route**: stay on main thoroughfares for as long as possible. ... **Map**. ... More mental **rotation** required. 17. **Map** display options ...
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... of the relevant locations of the **route** instruction (contained ... find a proper zoom factor for the **map**, which provides ... provided it may be useful to **rotate** the **map** ...
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[doc] Product Information

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... Use Snap Routing to drag and drop a **route** anywhere, changing the **route** to your preference. ... Dynamic legend; Maps **rotate** to keep heading up. ...

web01.microsoft.se/.../

AutoRoute%20Euro%202005,%20updated%202004-09-01%20and%202004-10-01.doc - [Similar pages](#)

Biscuit Fire Recovery Project - FEIS Table of Contents

... **Map** III-14, Haul **Route** Culverts at Risk Alternative 7. ... If the full **map** does not open

up in the Adobe Acrobat Reader click on the "**rotate** view clockwise ...

www.biscuitfire.com/feis/maps/feis-maps.htm - 10k - [Cached](#) - [Similar pages](#)

GPS Manager User Manual -- **Map**

... non-conformality, affine conformal, and affine conformal with no **rotation**, that corresponds ... In either case, changes made on the **route** on the **map** will appear ...
www.ncc.up.pt/gpsman/gpsmanhtml/manual/html/GPSMandoc_23.html - 14k - Jan 1, 2005 - [Cached](#) - [Similar pages](#)

Mapopolis Navigator Review

... Product highlights include rapid **route** computation and recalculations that are done

...

the ability disable power off, auto-scroll the **map**, auto-rotate the **map** ...

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... Bemassung, **Map Rotation**, Direct Connect... Neues in ArcGIS 8.1 ... 6 **Route Map** IMS Europe

7 Datensicherheit im Web 8 ArcCAD wird nicht länger unterstützt! 9 ...

www.esri-germany.de/downloads/arcaktuell/aa_101.pdf - [Similar pages](#)

psychology.92.3.58.space.11.bryant Sat Oct 31 1992 ISSN 1055-0143 ...

... a translation (providing the subject did not also **rotate**). ... magnitude of error depended

on the amount of **rotation**. ... LTM to generate an egocentric **route map** or to ...

www.cogsci.ecs.soton.ac.uk/psychology/

raw/1992.volume.3/psyc.92.3.58.space.11.bryant - 11k - [Cached](#) - [Similar pages](#)

Geostatistics - 3D Map Rotation in GS+

... GS + 3D **Map Rotation**. ... Rotations are performed from the **Map** Image Window ... 631-689-7838,

Toll-free within USA: 800-842-5892 FAX: 1-631-689-0103, 47 **Route** 25A, Suite ...

www.exetersoftware.com/cat/gs7/Overview/3DMapImageSDRotation.html - 11k -

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UK Department for Transport | Primary School Teaching Resource

... The **map** below indicates a **route** from the school to the ... Have the **map** already open

for the children to use ... TIP: to **rotate** the zebra crossing click on it and take ...

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... The **map** on the right indicates a **route** from the ... Have the **map** already open ... TIP: To

rotate the Zebra crossing click on it and take it to the **rotation** button. ...

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ict/year_1/lp_77/resources/resources_lesson.pdf - [Similar pages](#)

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... between two rectangles A and B, **rotate** them both ... It should display the initial scaled,

but unperturbed, **route**. ... toggle between the result and the initial **map**. ...
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... seamless European **map** - all countries visible on one **map** • **route** across many ...
 step
 by step navigation by human voice • **map rotation** (north up or in ...
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... seamless European **map** - all countries visible on one **map** ? **route**
 across many
 countries ? ... **map rotation** (north up or in driving direction) ? ...
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pocketnow.com - Review - PowerLOC Technology's Destinator 2 GPS ...
 ... your driving direction" means that the **map** will **rotate** so that ... discover a major
 detour
 along a standard **route** set up ... detour, you'd have to scan the maps to get ...
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[RockWare- MapOCX: display maps, street routing, geocoding for ...](#)
 ... The enhanced features such as **map rotation**, Point-to-Point ... USA includes
 PrimeMap+,
 the most current **map** data available. ... RiteRoute- automatic **route** calculation. ...
www.rockware.com/catalog/pages/mapocx.html - 13k - [Cached](#) - [Similar pages](#)

Map and Compass Basics

... that will help you plot a **route** on a **map**, follow that **route** and avoid an ... on the **map**
 aligned with the left or right margin then **rotate** the **map** and compass ...
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 ... You can set Navigator to **rotate** the **map** keeping ... postcodes can be located on the
map -
 search by ... Routing - detailed itinerary of your **route** - accurate mileages ...
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 ... 35 **MAP** FILES ...
www.delorme.com/support/topousa/topo5.pdf - [Similar pages](#)

PDA Buyer's Guide Reviews: Sony Car Cradle GPS for NX73,NX80 and ...

... You will find a large **Route** button at the bottom right corner of the **map** ... as AutoZoom

with Speed, Next turn or manual Zoom, turn on/off **map rotation**, set number ...

www.pdabuyersguide.com/tips/GPS/sony_car_cradle_GPS.htm - 20k -

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STEMS Tour Map

STEMS Tour **Map** The STEMS tour **route** has two clearly marked loops. ... Along the way you

will see examples of extended **rotation**, patch cut, group selection, and ...

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... Rock hachures; Room book; **Rotation**; **Rotation**; **Rotation** laser; **Rotation** of the earth;

Route; **Route** guidance; **Route** survey, sketch map of **route**; **Route** surveying, ...

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... Take the compass off the **map** and **rotate** the entire ... one with the beginning and end

as defined on a **map** by the ... Use back bearings to check their **route**. ...

www.scoutbase.org.uk/hq/sponsorship/badges/sco-nav.pdf - Similar pages

Map Reading in the 21st Century

... **map** as they uncover the **route** and, finally ... [http://www.rightinclass.com/integrate/](http://www.rightinclass.com/integrate/rotation.htm)

rotation.htm; Teamwork ... **Map** Collections Provides access to digital maps within ...

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... 2001 DeLorme. Topo USA® 3.0 Scale: 1 : 137,500 Zoom Level: 10-5 Datum: WGS84 **Map**

Rotation: 0° Magnetic Declination: 2.1°W Newburgh Old Dam 40 Mile **Route**

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... **Rout** data report, User points list, GPS data, Navigation data, Graphic data. ... nearest,

Tide info, External waypoint, Simulation mode, MOB, **Map Rotation**, EBL & ...

www.onlinemarine.com/online_superstore/

electronics/chartplotters/sitex_fishplot_10.htm - 25k - [Cached](#) - [Similar pages](#)

GPS60C screen displays

... **rotation** 1 1a) Satellite Page with Battery Charge/External Power indicator at top. Red dot is direction of travel 1b) **Map** Page (pink line is the active **route** ...
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... mental **rotation** and provide a consistent left-right display ... (1997) found that a 3D perspective Electronic Moving **Map** ... EMM) allowed faster **route** completion times ...
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... **Rotate** the **map** and compass together until the red end of ... scorecard and examine your **map** to choose your next **route**. ... If you have got a **map**, try to determine ...
poc.purdue.org/docs/orienteer.pdf - [Similar pages](#)

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... Although creating a **route map** may seem to be a straightforward task, the underlying design of most **route** maps is quite complex. ... 2.2 Generalizing **Route** Maps ...
graphics.stanford.edu/papers/routemaps/rmaps.pdf - [Similar pages](#)

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... **Route Map** Sketch Agrawala and Stolte, Rendering Effective **Route** Maps, to appear SIGGRAPH 2001 ... How to **map** information to graphics ... Passive (**rotation**) 72% ...
graphics.stanford.edu/~hanrahan/talks/visualcomputerII/visualcomputer.pdf - [Similar pages](#)

EliteForce.com - Download: Server config: A Snipers **Route** Through ...

Download: Server config: A Snipers **Route** Through Single Player (IN2TAGIB FFA). ... With this **map rotation** you will revisit spots from the single player campaign and ...
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Micromail - Microsoft AutoRoute 2005 CD

... drop a **route** anywhere, changing the **route** to your ... Flat maps of world Dynamic legend

Maps **rotate** to keep ... Installation of **map** files require extra memory (approx ...
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... Figure 3: **Route** instruction with the user's current position in the center, and ... reference

frame of the **map** (north), and (c) to mentally **rotate** the **map**. ...

www.sli.unimelb.edu.au/winter/pubs/winter04shifting.pdf - [Similar pages](#)

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... saddle higher so that your leg is almost straight when your pedal is at the bottom of a **rotation**. ... **Route** Update ... What's open August '99 **map** • Bicycle Beat ...

www.fife-cycleways.co.uk/newspdfs/Cycleclips_Issue_4.pdf - [Similar pages](#)

5 Maps

... the user from correctly understanding a **route map**. ... A consistent orientation among

all maps in the ... compare different routes without engaging in mental **rotation**. ...

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... **Map** will display. 4. **Rotate** large knob to **map** information page. "**ROUTE** LINE: YES" etc. 5. **Rotate** SMALL knob to "**SAR MAP**" page. ...

sq23.cawg.cap.gov/Downloads/ApolloGX55Notes.pdf - [Similar pages](#)

Heretic Fortress is a teamplay modification made for Heretic II ...

... As of now, bots **route** are only available for a limited ... when turned on, will have a glowing excalibur **rotate** around King ... New maplist system **Map rotation** list is ...

thf.raven-games.com/pop_up_new_features.shtml - 11k - [Cached](#) - [Similar pages](#)

kwc blog: Notes: Automating the Design of Visualizations

... Majority picked wrong **map** of US (aligned South America/Africa and North America/Europe). ... **Rotation**. ... Design principles for **route** directions. ...

kwc.org/blog/archives/2004/2004-07-26.

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... baseline attempts in **map** 1. As for **rotation** groups, only subjects working exclusively in pairs (Fig. 1b) show a marked rise in **route** deviation at the fth **map** (...
www.asel.udel.edu/icslp/cdrom/vol3/673/a673.pdf - [Similar pages](#)

"O"-1-2-3

... but allow him or her to hold the **map** and make the **route**-choice decisions ... Holding the compass on the **map**, **rotate** them together until the RED end of the floating ...
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index_news.htm

... Port **Rotation**. Jebel Ali - Karachi - Nhava Sheva - Colombo - Felixstowe - Rotterdam -
Hamburg - Jebel Ali. ... For port **route map** and transit time, click here. ...
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... tracking display/tracking record/save/playback; GPS on move **map rotation**/automatic
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... the runability in swamps and forest to change the best **route**. ... Once you've started you have to **rotate** the **map** ... Since the **map rotation** is able to be done while ...
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Street Atlas USA Deluxe

... **ROTATE**: Ability to **rotate** the **map** view from north ... MULTIPLE ROUTES: You can have multiple
routes in memory at once – the active **route** shows a solid ...
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... Main effect for **route**: significant. ... People are different. Huge variance in user performance in both **map** and text implementations. ... **Rotate map** for track-up bearings ...
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The Jeffersonville Evening News and The New Albany Tribune

... Some great enhancements were added such as the ability to **rotate** the **map** in the direction ... If you're not using GPS, you can print a trip **route map** in strip form ...
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Mapopolis Navigator USA for PALM OS

... **Rotate**, Zoom, Scroll and add/remove detail for easy **map** viewing. Easily change destination mid-**route** if your schedule changes. GPS receiver not included. ...

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:: Welcome To BURSTFIRE.NET - Just About The Games :: Main ::

... IP's and email them to routing@burstfire.net with subject \"new network **route** test\"

Thanks ... folks, as of 8pm GMT tonight there will be a new **map rotation** on CS ...

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Professional Surveyor Archives

... exactly match a little plus sign along the highlighted **route**. ... Display the GPS position

on the **map** at all times ... can control the pitch and the **rotation** so that ...

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Planning2

... The **rotation** is the City of Richmond, Chesterfield County, Henrico County, and Hanover

County. Copies of completed documents and maps are included in this ...

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... **rotate** maps in order to restore simple spatial and directional relationships ... McDermott]

are not accurate reflections of human **map** and **route** searching strategies ...

www.giscience.org/GIScience2000/posters/146-Mooney.pdf - [Similar pages](#)

Fjällsäkerhetsrådet - Fjällkartor

... eg 12°50') in the upper margin of the **map**. **Rotate** the entire compass so that the magnetic red-tipped ... it is usually best to divide a long **route** into several ...

www.environ.se/fjallsaker/eng/html/kartor.html - 9k - [Cached](#) - [Similar pages](#)

GNU Zebra -- ripd

... SIGUSR1 **Rotate** ripd logfile ... RIP command: redistribute kernel; RIP command: redistribute

kernel metric <0-16>; RIP command: redistribute kernel **route-map ROUTE-MAP** ...

manticore.2y.net/doc/zebra/ripd.html - 24k - [Cached](#) - [Similar pages](#)

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... drift of course, it will recalculate the **route** from your ... The **map** is always oriented with north to the top ... like when using a paper roadmap, you **rotate** the **map** ...

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... as a tracking target and/or **route** start/stop ... search methods to help you find **map** features quicker ... Editions (includes support for the **rotation**/landscape modes of ...
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... possibilities as following the **route** on the **map** or to ... Name of the next bus stop 2.
Route number of ... The destination is shown in Finnish and Swedish in **rotation**. ...
www.hel.fi/ksv/entire/repPassengerInformation.htm - 30k - [Cached](#) - [Similar pages](#)

[msmobiles.com - Software review : Mapopolis for Microsoft ...](#)

... of the **route** following with a help of the Mapopolis: And here you can see that actually
you can **rotate** the **map** to angle that you wish: This **map rotation** works ...
www.msmobiles.com/article.php/73.html - 11k - [Cached](#) - [Similar pages](#)



Result Page: 1 2 3 4 5 6 7 8 9 10 [Next](#)

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route map rotate OR rotation

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(strip OR route) map orientation

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Web Results 1 - 100 of about **566,000** for **(strip OR route) map orientation**. (1.04 seconds)
orientation

... If you are following a **route** South on a ... it may be possible to create a **map** showing multiple ... major highways approaching your area) with an **orientation** chosen to ...

www.adit.co.uk/html/**orientation**.html - 13k -

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Sponsored Links

Route Map

Print Your **Map**, Plan Your Trip,
Map Driving Directions in US.
 MapNation.com

5.3 Map Orientation

... preventing the user from correctly understanding a **route map**. ... or cross-referencing a **map** from another ... Consistency: A consistent **orientation** among all maps in ...

www.transitweb.its.dot.gov/ guidelines/main.asp?chap=5&id=5-3 - 16k - Jan 1, 2005 -

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1 Principles

... Information on two small related pages are combined into a single page with two labeled sections (eg, a short schedule and simple **route map** are on the same page ...

www.transitweb.its.dot.gov/ guidelines/main.asp?chap=print&id=1 - 38k -

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KAT Route Schedules

... All routes are and maps are in .pdf format ... Need Snow **Route** info ... the print options window and use regular (8" 1/2" x 11") size paper in the portrait **orientation**.

...

www.ci.knoxville.tn.us/kat/ web%20pages/Schedules/Schedules.asp - 18k -

[Cached](#) - [Similar pages](#)

Comair, The Delta Connection - Maps - System Route Map

System **Route Map**. Comair ... apply. For best printing results, choose Landscape paper **orientation** from your Page Setup or Print Setup.

www.comair.com/maps/system/large.html - 2k - [Cached](#) - [Similar pages](#)

Maps of Greece and Tour Route

Maps of Greece & Trip **Route Map**. RED LINE REPRESENTS BUS TOUR **ROUTE** FOR THE FIRST WEEK. Clickable **Map** 1 of Greece. Clickable **Map** 2 of Greece. ...

www.thales1.armstrong.edu/ grk/studyabroad/**orientation/maps**.html - 4k -

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DART.org - DART Schedules

... **Route** 19. ... **Route** 50. Buckner Blvd. Downtown Dallas Cockrell Hill Transfer

Location Tip for printing the schedules: Set the printer **orientation** to landscape. ...
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DART.org - DART Schedules

... **Route 44**: RHD Medical Center - R Brookhaven College - B Downtown Dallas
 Bexar Street Tip for printing the schedules: Set the printer **orientation** to landscape. ...
www.dart.org/fullsched.asp?zeon=route44 - 47k - [Cached](#) - [Similar pages](#)
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[PDF] MAPS AND ROUTE PLANNING

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 ... by the filling in of the streets with a green background **strip** : ... MAPS AND ROUTE PLANNING PC Manual ... The zoom changes, and the **map** centers on "Val-de-Marne" ...
shop.viamichelin.co.uk/prod/ManualPALMen.pdf - [Similar pages](#)

1-ArcGIS Software Simplifies Map Book Generation

... Each grid can change **orientation** as it follows the path. Both regular and **strip map** grids can be created using a variety of parameters including a tile-naming ...
www.esri.com/news/arcuser/0702/dsmapbook1of2.html - 17k - [Cached](#) - [Similar pages](#)

GPS - Orientation Solutions

... GPS - **Orientation** Solutions. ... information detection (Intersections and Point of Interest) • Real-time/offline **map** browsing (**Route** Preview) • **Route** ...
www.visuaide.com/gpssol.html - 22k - [Cached](#) - [Similar pages](#)

[PDF] A Design and Implementation for Effective Computer-Generated Route ...

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 ... the **map** stretches over many pages and the **orientation** and scale factor varies from page to page, forming a general understanding of the overall **route** can be ...
graphics.stanford.edu/papers/maps/maps.pdf - [Similar pages](#)

[PDF] Rendering Effective Route Maps: Improving Usability Through ...

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 ... **Strip** maps, or triptiks, address the issue of varying scale by breaking the **route** up onto several maps, each with its own **orientation** and scale. ...
graphics.stanford.edu/papers/routemaps/rtemaps.pdf - [Similar pages](#)

[PDF] Location Based Services Koeppel, I. (2000). What are location ...

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 ... **Orientation** specificity in spa- tial memory: What makes a path different from a **map** of the path? ... Rendering effective **route** maps: Improving usability through ...
www.cosy.informatik.uni-bremen.de/staff/barkowsky/semSpaCog/references-sorted.pdf - [Similar pages](#)

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... Automating **Route Map** Design Automating **Route Map** Design ... Choose visual attributes • Position Position • **Orientation Orientation** • Size Size ...
[graphics.csail.mit.edu/~fredo/ SIG02_ArtScience/ManeeshCoursenotesFn16.pdf](http://graphics.csail.mit.edu/~fredo/SIG02_ArtScience/ManeeshCoursenotesFn16.pdf) -
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... Page 17. Automating **Route Map** Design Automating **Route Map** Design • •
 Layout problem Layout problem ... **Orientation Orientation** • Size Size ...
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Sci.JO Vol. 7

... This preliminary investigation of the **map orientation** skills used by young ... the use or non-use of an **orientation** strategy using a mapped **route** across a ...
www.ped.gu.se/scijo/v7.html - 11k - [Cached](#) - [Similar pages](#)

[PDF] Student Orientation

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Route map: <http://www.ptts.tamu.edu/bus/maps.asp> If ...
geog.tamu.edu/grad/orientation.pdf - [Similar pages](#)

DirectRoute -Product Review

... Using Direct **Route** on the GPS Receiver: The Autorouting initiates a **map orientation** of Track-Up. One can change this to North-Up ...
gpsinformation.us/DirectRoute/DirectRoute.html - 16k - [Cached](#) - [Similar pages](#)

bug out route

... Terrain features could aid in **map orientation**, or could serve as obscure references ... RECORDING THE BUG OUT **ROUTE**: Unless your routes are intimately familiar, a ...
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[PDF] Effective Route Maps

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... shuffle **Orientation** See paper eq. ... endptDist p dest and p origin are the destination and start points of the **route map**, p int is ...
www.cs.brown.edu/courses/cs224/hw/routemaps.pdf - [Similar pages](#)

Viney.com > How to contact us, find us and sign our guestbook

... Directions to our home. How to find us when driving to Teddington. [**Route Map**]. 1. Exit the M25 in Surrey at Junction 12 (the M3 exit). ...
www.viney.com/html/orientation.html - 39k - [Cached](#) - [Similar pages](#)

Whitman College - Semester in the West

... **Route Map**, ... Trace our **route** as we travel through the West. ... 28, Buckhorn:

Phil in charge of **orientation** day; Mary talks in evening about her own background (science ...

www.whitman.edu/semester_west/sitw2004/route04.html - 36k -

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directions -- Britannica Student Encyclopedia

... **Orientation** with **Map** and Compass. ... If a starting place and destination are marked on a **map**, the **route** direction may be determined by using a compass. ...

www.britannica.com/ebi/article?tocId=199646 - [Similar pages](#)

DETR - Nevada Equal Rights Commission

... distinction, exclusion or restriction because of race, religion creed, color, age, sex (gender and/or **orientation**), disability, national origin, or ... **Route Map**. ...

detr.state.nv.us/nerc/NERC_index.htm - 23k - [Cached](#) - [Similar pages](#)

Online Tools

... **Orientation** CD Extract. ... Serco **Route Map** for Change 'Change' is our core product and it is essential that our leaders understand our approach to managing ...

www.serco.com/people/learning/onlinetools/index.asp - 13k - [Cached](#) - [Similar pages](#)

Map Orientation with Compass Rose

... (c) Check **map orientation** each time compass is used. ... (3) Using point-to-point navigation. f. **Route** selection techniques follow: ...

www.tpub.com/content/USMC/mcrp302h/css/mcrp302h_21.htm - 17k -

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Orientation Symbol

... Some Figure 11-1.-An **orientation** symbol or ... for city layout, site plan, communications, **route** and distance ... A precise topographic **map** shows surface features so ...

www.tpub.com/content/engineering/14069/css/14069_364.htm - 27k -

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Familiar **route** loyalty implies visual pilotage in the homing ...

... the back by a small Velcro **strip** glued to ... The precise details of **route** mapping mechanisms and the ... **orientation**, pilotage rather than mosaic **map**-based navigation ...

www.pnas.org/cgi/content/full/101/50/17440 - [Similar pages](#)

Kitchin's Hampshire 1767, **map** features

... point: Each **strip** has a north point, marked with a spear point for north, and a cross line marked with a cross for east. The **orientation** of the **route** maps is ...

www.geog.port.ac.uk/webmap/hantsmap/hantsmap/kitchin3/kit3ftr.htm - 9k -

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HantsMap notes

... **route** diagrams; sketch diagrams of roads included on ... side-by-side comparison of Ogilby and later **strip** maps. ... the hypertext navigation for one **map** maker's pages. ...

www.geog.port.ac.uk/webmap/hantsmap/hantsmap/miscintr.htm - 9k -
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HNI | Working Groups | CIM | Miscellaneous | Route Map

Rout Map. Rout Map (PDF). How to find us. Adresse: Heinz Nixdorf Institut
Rechnerintegrierte Produktion Universität Paderborn Fuerstenallee ...
www.whni.uni-paderborn.de/rip/sonstiges/hni_lageplan_e.php3 - 10k -
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[PDF] General Orientation Map

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Page 2. **Route 811 Final (Part 5): Update 04/11/2002 General Orientation Map 39 ...**
[www.wolfesonwheels.co.uk/docs/route_811_final_\(part_5\).pdf](http://www.wolfesonwheels.co.uk/docs/route_811_final_(part_5).pdf) - [Similar pages](#)

SPATIAL ORIENTATION, WAYFINDING, AND REPRESENTATION

... knowledge attained from maps is inferior to survey knowledge developed from
route knowledge and direct navigation because of the **orientation** specificity issue ...
vehand.engr.ucf.edu/handbook/Chapters/Chapter28/Chapter28.html - 101k -
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R-MWC - New Student Orientation - Directions to Campus and Maps

Info : **Orientation** : Directions & Maps. ... Woman's College is located at 2500
Rivermont Avenue, Lynchburg, VA 24503 View Campus **Map**. ... Take **Route 460**
West to Lynchburg ...
www.rmwc.edu/newstudents/information/orientation_directions.asp - 21k -
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UWEC - Advising/Adult Opportunity Office/Adult Student Orientation ...

Orientation Guide. ... Pick up a current bus **route map** and see where you could
conveniently park on a side street north of Water Street and hop on a bus to reach ...
www.uwec.edu/NonTrad/Pub/Orientation_Fees,%20I.D.,%20Books.htm - 13k -
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75 Holidays in the Hills, India travel guide, India travel guides ...

... You will need a road atlas or a detailed **route map** to find your way around
Orientation Each destination opens with the information of locations. ...
www.indiamapstore.com/outlook-traveller/IMS0101.html - 16k -
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Outlook Traveller Travel Guide for Weekend breaks from Mumbai ...

... and on highways The **route** guides are intended for general **orientation** only;
and you will need a road atlas or a detailed **route map** to find your way around. ...
www.indiamapstore.com/outlook-traveller/IMS0094.html - 14k -
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GTA Rider Orientation

... of the bus. You'll take back a few "goodies," including **route** maps and schedules

for the routes closest to your pick-up location. ...
www.ci.greensboro.nc.us/ gdot/public_trans/**orientations**.htm - 11k -
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HLTH 001 Healthy Lifestyle

As part of the HLTH001 **Orientation** module, SAO and Students' Yo-hoo Club join hands to ... d. collect the record form AND the **route map** from the duty Counter Staff
...
www.ab.ust.hk/sao/HLTH001/self-access.html - 11k - [Cached](#) - [Similar pages](#)

Auto Nav 2000 Plus, Inc. - Magellan PathMaster Nav System

... PathMaster will calculate the most efficient **route** between points, or allow you to plan your own trip by ... You can also change the **map** scale and **map orientation**. ...
www.autonav2000.com/Products/PathMaster.htm - 46k - [Cached](#) - [Similar pages](#)

AA Technologies - Magellan Navigation Systems

... Driver Controls: **ROUTE/MAP** button for switching between guidance screen and **map** screen. OPTION button for changing voice volume, **map** scale and **map orientation**. ...
www.aatechnologies.com/navigationssystem/ magellennavsys/magellannav.asp - 13k - [Cached](#) - [Similar pages](#)

Grand County Colorado Map

Maps & **Orientation**. ... In the southwest portion of the Park **map**, you'll find Grand Lake ... through Rocky Mountain National Park or by the year-round **route** up Hwy. ...
www.mountainlake.com/Map.htm - 7k - [Cached](#) - [Similar pages](#)

[PDF] NATIONAL PARK SERVICE MINED LANDS FIELD INVENTORY DATA SHEET ...

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... Show **map orientation**, approximate scale, access **route**, drainages in the vicinity, and the location of each of hazard. (Identify ...
www2.nature.nps.gov/geology/aml/Aml-Inv-form.pdf - [Similar pages](#)

Menu index

... CDI scale; Units; Heading. **Map Setup: Orientation** - North Up, Track Up, DTK Up; Plotted Items; Rings; **Route**; Nearest; Names; Track Log. Track Log: Record - Yes, ...
www.gpsinformation.org/dale/menu.htm - 20k - [Cached](#) - [Similar pages](#)

Adventure Cycling Association

... as it is on most maps, and why it changes **orientation** from panel to panel. This allows as many miles of the **route** as possible to be depicted on each **map** panel. ...
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... up as it is on most maps, and it changes **orientation** from panel to panel. This allows as many miles of the **route** as possible to be depicted on each **map** panel.
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Portland Oregon Orientation Map

... Portland, Oregon **Orientation Map**. ... Info | Investor Relations | Work at About | Site **Map** | Icons | Help. ... Fashion Makeover Photo Gallery: Las Vegas **Strip** How to ...
portlandor.about.com/cs/relocation/a/portlandmap.htm - 23k - [Cached](#) - [Similar pages](#)

[PDF] Immigrant Orientation Guide

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... Or find bus information online at www.metrotransit.org You can also find **route** maps and schedules on each bus. Other helpful telephone numbers ...
www.mnchurches.org/immigrantguide/pdfs/10.guide.en.pdf - [Similar pages](#)

Newcomer Orientation/Briefing: PMV Safety Segment

... members should be given the following during this **orientation**/briefing (as ... **Strip** Maps - Provide maps to local area's most frequently visited resorts/recreation ...
www.safetycenter.navy.mil/ashore/motorvehicle/toolbox/newcomer.htm - 18k - [Cached](#) - [Similar pages](#)

Camden County Historical Location

... **GENERAL ORIENTATION MAP**. BASIC DIRECTIONS From whatever direction you are traveling, head west onto Haddon Ave. (County Rte. 561) from **Route** 130. ...
www.cchsnj.com/location.shtml - 23k - Jan 2, 2005 - [Cached](#) - [Similar pages](#)

3-Lib

... Here are my recommended settings: **Map orientation**: Heads-up Color style: Greys (for best visibility in sunlight on the 9210) **Route** indicator follows table ...
3lib.ukonline.co.uk/gps.htm - 12k - [Cached](#) - [Similar pages](#)

SLIS Orientation Web Site

... Use the Metro site to find **route** maps and schedules ... web site offers a store directory, **map**, calendar of ... www.state-st.com/. Return to main **orientation** page
Return ...
www.slis.wisc.edu/events/orient/madison.html - 7k - [Cached](#) - [Similar pages](#)

[doc] First-Time Hikers leaders Orientation

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... monitor your progress against **map** times - if you're going too slowly, cut the **route** short and don't risk getting stuck in the dark; ...
www.iac-tokyo.org/guides/Hike-Leader-Guide-EN.doc - [Similar pages](#)

Sharm el-Sheikh Fact-Finding Committee - Map No3- Gaza Strip ...

... 28 Dec 2000. SHARM EL-SHEIKH FACT-FINDING COMMITTEE (for **orientation** purposes only) **Map** No.3: Gaza **Strip** - Major Flashpoints of Conflict. ...
www.mfa.gov.il/MFA/MFAArchive/2000_2009/2000/12/Sharm%20el-Sheikh%20Fact-Finding%20Committee%20-%20Map%20No3- - 48k
- Jan 1, 2005 - [Cached](#) - [Similar pages](#)

PlanetMountain.com - Snow - Mont Blanc ascent along the normal ...

... Mont Blanc **Map**. DESCENT **Ori ntati n**: North Height difference: 2500 m
 Difficulty: ***. Descent details Descend via the ascent **route** to the skis at the Vallot ...
www.planetmountain.com/English/Snow/france/mblanc/Mblanc.html - 18k -
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Australian Cyclist January 2005 - Books: Cycling France

... The practical disadvantage of the random **map orientation** is that it is hard to
 correlate the **route** maps with other maps that you may use along the way. ...
www.australiancyclist.com.au/showarticle.php?s=10&a=91 - 12k - Jan 1, 2005 -
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[PDF] User Manual

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 ... for a single-leg **route** from a list of waypoints. This key also accesses the Man Over
 Board function. ZOOM IN - Allows you to zoom in on the **Map** screens. ...
www.magellangps.com/assets/manuals/oldprod/manual_MAP410.pdf - [Similar pages](#)

Appetite Network -- Destination Guides - North America - Canada ...

... **ORIENTATION** AND CITY TRANSPORT, ... Free **route** maps are available here,
 as well as at the tourist offices, and details of services are printed at the back of the ...
guide.appetitenet.com/index.jsp?cid=48243&action=viewLocation&formId=72727 -
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 ... (Each option, North Up, Course Up, and Desired Track Up, changes the chart's
orientation.) Direct To Feature ... Moving **Map** ... 2. Click any point off the **route**. ...
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 ... easy **Map orientation** & mental rotation More difficult **Map** Preferred format
 Written Embedded in external ref frame Conceptual model for **route** Sequence of ...
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Bowling Green State University: Orientation & First Year Programs

... is on East Wooster Street between State **Route** 25 and ... Download Printable **Map**
 Directions and Parking. **Orientation** & Registration check-in is located in the Bowen
 ...
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[PDF] Summer Orientation Map 2004

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 ... VE. ALPHABETICAL / LOCATION ON **MAP** 23 Ackerman Hall * J Pratt
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route ...
www.iup.edu/advisingtesting/ORIENTATION/Summer_Orientation_Map_2004.pdf -
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Middlebury College - Campus Map

... Willard is the starting point for all campus tours and similar **orientation** activities ...
7): turn west onto **Route** 125, continue south on **Route** 30 (South Main Street ...
campusmap.middlebury.edu/campusmap/
map/building?building=EMMAWILLARDHOUSE - 13k - [Cached](#) - [Similar pages](#)

About VLS - Directions & Map

... **Orientation**. ... **Directions & Map** Vermont Law School is conveniently located near
Interstate 89 in ... Drive north on **Route** 14 five miles to the big, new, steel and ...
www.vermontlaw.edu/admissions/index.cfm?doc_id=203 - 14k -
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Themes

... horizontal axis, which is actually the accurate compass **orientation**. ... a number of
landmarks along their **route** like the ... to build a more complete **map** of Chinatown ...
www.people.fas.harvard.edu/~jywu/mapping/orientation.htm - 7k -
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Big Change

... is a collection of practical, actionable guidance—the "**route map**" of the ... research
project has yielded a new metric, Information **Orientation**, which companies ...
www.accenture.com/xd/xd.asp?it=enweb&
xd=ideas%5Cpublications%5Cbigchange.xml - 57k - [Cached](#) - [Similar pages](#)

CLICK&GO INTERACTIVE

... By clicking a location and destination from a site list, an "**orientation** and mobility"
appropriate narrative **map** is displayed giving **route** directions between ...
clickandgomap.com/02_product_interactive_02.htm - 19k - [Cached](#) - [Similar pages](#)

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... **ROUTE MAP TO USER AND CARER** ... services you want include your age,
gender, sexual **orientation**, language, religion, ethnic group or social or cultural
background. ...
www.sdcmh.org.uk/pdf/route%20map%20part%20two.pdf - [Similar pages](#)

Tour de Somewhere Out West - Itinerary

... Itinerary. Pre-tour, Saturday evening, Reception and **Orientation** (Winfield), ...
View the **route map** full-size (320 KB / 89 sec at 28.8/sec). ...
www.borealisoutdoor.com/content/tours/bc/tds00.htm - 17k - [Cached](#) - [Similar pages](#)

Amsterdam XXX / The Walletjes | Other Places

... The overall **route**. ... Horizontal/landscape **orientation**. Kamer Maps. ... Then view
or print—each **map** is specifically designed to print at full A4 format (8.5x11). ...
www.ignatzmice.com/Adam/features/RLD_WALKING_TOUR/RLD_maps.htm - 12k -
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Campus Map 2004

... Or [CLICK HERE](#) to change **map orientation**.). ... Special event signs will be

posted on Lincoln Avenue (**Route** 16) directing you to these two parking lots. ...
www.eiu.edu/~pre-eng/engfiles/Academic_Challenge_Info/map2004.html - 3k -
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... The six thousand square foot **orientation** building is divided into three "experience
... in Alabama by far more powerful engines, and the railroad **route** maps of the ...
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Outpost.com | MICROSOFT

... different **map** styles including full-page maps, **strip** maps with directions ... The
Route Planner enables users to optimize, view ... draw a box around the **map** image
you ...
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JrCamp

... When trainer stops, followers relocate using memory of what they observed on
route and in surrounding terrain. ... Skill. 62. 146. **map orientation**. 4. 88. **map**
reading ...
home.comcast.net/~rshannonhouse/JrCamp.html - 41k - [Cached](#) - [Similar pages](#)

[PDF] Microsoft PowerPoint - User Responses.ppt

File Format: PDF/Adobe Acrobat - [View as HTML](#) .
... 2 Some evidence for fewer navigation errors GPS + **route** information relative to
map only Comments GPS "You are here" landmark reduces **orientation** effort If ...
dg.stallab.iastate.edu/dg/advisory/user_responses.pdf - [Similar pages](#)

[PDF] Spatial Memory Spatial Memory

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... Observer external to space • Fixed **orientation** • Global properties ... **Map** Reading
F Better performance on straight line distances F ... **Route** Movie Survey Movie ...
www.psy.jhu.edu/~stark/class/SpatialMem.pdf - [Similar pages](#)

The Weblog Review

... CHIO Chip Chipset Chkdsk Choke **Route** Choose Chooser ... Adapter Color
Lookup Table Color **Map** Color Palette ... Box Combo-Box Comdex Comic-**strip**
Orientation Comm Comma ...
www.theweblogreview.com/dictionary/
defineComic_HY_strip_SPACE_Orientation.html - 88k - [Cached](#) - [Similar pages](#)

Tiresias - Scientific & Technological Reports

... MoBIC is developing a **route** planning system which is ... to give the precise current
position and **orientation** of the ... data to a position on an electronic **map** of the ...
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EAST SEARCH

1/3/05

L#	Hits	Search String	Databases
L1	7541	(route or strip\$5) near\$5 map\$5	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB
L2	471	1 and (map\$5 same rotat\$5)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB
L3	357	1 and (map\$5 same rotat\$5)	USPAT; EPO; JPO; DERWENT; IBM_TDB
Results of search set L3:			
US 6836822 B1		Apparatus for and method of retrieving information	20041228 711/117
US 6831643 B2		Method and system for reconstructing 3D interactive walkthroughs of real-world environments	20041214 345/427
US 6819324 B2		Memory interleaving technique for texture mapping in a graphics system	20041116 345/540
US 6807482 B2		Navigation apparatus and navigation method	20041019 701/209
US 6803989 B2		Image printing apparatus including a microcontroller	20041012 355/18
US 6798412 B2		Occlusion reducing transformations for three-dimensional detail-in-context viewing	20040928 345/428
US 6795068 B1		Prop input device and method for mapping an object from a two-dimensional camera image to a three-dimensional space for controlling action in a game program	20040921 345/419
US 6788895 B2		Security mapping and auto reconfiguration	20040907 398/9
US 6760661 B2		Method for operating a navigation appliance, and arrangement for carrying out the method	20040706 701/210
US 6760027 B2		Bird's-eye view forming method, map display apparatus and navigation system	20040706 345/427
US 6756919 B2		Map display apparatus	20040629 340/995.14
US 6741928 B2		Navigation system with figure of merit determination	20040525 701/209
US 6738009 B1		System and method for synthetic aperture radar mapping a ground strip having extended range swath	20040518
US 6725144 B2		Control apparatus and applicable control method and control program for vehicle	20040420 701/65
US 6721572 B1		Mobile communication optimization near wireless dead zone regions	20040413 455/456.1

US 6714664 B2	ROAD AREA EXTRACTING APPARATUS FOR EXTRACTING A ROAD AREA FROM A BLOCK MAP, DEFORMED MAP AUTOMATIC GENERATION SYSTEM FOR GENERATING A DEFORMED MAP FROM ROAD AREA DATA OBTAINED BY THE ROAD AREA EXTRACTING APPARATUS, MAP INFORMATION PROVIDING SYSTEM, GEOGRAPHICAL INFORMATION PROVIDING SYSTEM AND GEOGRAPHICAL INFORMATION DESCRIBING METHOD	20040330	382/113
US 6702417 B2	Printing cartridge with capacitive sensor identification	20040309	347/19
US 6701250 B1	Method of directing a driver of a vehicle from at least one starting point to at least one destination	20040302	701/210
US 6700534 B2	Position privacy in an electronic device	20040302	342/357.1
US 6697720 B2	Vehicle active drive assist device and vehicle provided with the same	20040224	701/36
US 6677884 B2	Satellite configuration for interferometric and/or tomographic remote sensing by means of synthetic aperture radar (SAR)	20040113	342/25R
US 6676510 B1	Electronic gaming device having random reel mapping	20040113	463/20
US 6668626 B2	System and a method for measuring and determining flatness	20031230	73/104
	VEHICLE NAVIGATION APPARATUS PROVIDING RAPID CORRECTION FOR EXCESSIVE ERROR IN DEAD RECKONING ESTIMATES OF VEHICLE TRAVEL DIRECTION BY DIRECT APPLICATION OF POSITION AND DIRECTION INFORMATION DERIVED FROM GPS POSITION MEASUREMENT DATA	20031202	701/214
US 6658353 B2	Navigation device	20031202	701/208
US 6658350 B1			
US 6654014 B2	Bird's-eye view forming method, map display apparatus and navigation system	20031125	345/427
US 6650999 B1	Method and device for finding a parked vehicle	20031118	701/213
US 6647338 B1	Navigation device	20031111	701/212
US 6643583 B2	Method for displaying a road map in an automotive vehicle	20031104	701/208
US 6636200 B2	System switch	20031021	345/161
US 6629037 B1	Optimal paths for marine data collection	20030930	702/14
US 6624782 B2	System and method for avoiding accidents in intersections	20030923	342/70
US 6621494 B2	Map database device, map display apparatus and recording medium capable of efficiently having and utilizing height data	20030916	345/427
US 6618117 B2	Image sensing apparatus including a microcontroller	20030909	355/18
US 6617980 B2	Broadcasting type information providing system and travel environment information collecting device	20030909	340/905
US 6603407 B2	Map display apparatus	20030805	340/995.14
US 6600993 B1	Navigation system	20030729	701/208
US 6591339 B1	Methods and systems for selecting block sizes for use with disk arrays	20030708	711/114
US 6591338 B1	Methods and systems for mirrored disk arrays	20030708	711/114
US 6591187 B2	Map generation device	20030708	701/208

US 6587786 B1	Sensor free vehicle navigation system utilizing a voice input/output interface for routing a driver from his source point to his destination point	20030701	701/211
US 6571351 B1	Tightly coupled secondary storage system and file system	20030527	714/6
US 6565610 B1	Method and system for text placement when forming maps	20030520	715/517
US 6549828 B1	Aircraft based infrared mapping system for earth based resources	20030415	701/1
US 6547364 B2	Printing cartridge with an integrated circuit device	20030415	347/19
US 6546458 B2	Method and apparatus for arbitrarily large capacity removable media	20030408	711/114
US 6542645 B1	Adaptive tracking of dots in optical storage system using ink dots	20030401	382/254
US 6535814 B2	Navigation system with route designating device	20030318	701/210
US 6535812 B2	Map display apparatus and display method therefor	20030318	701/208
US 6529997 B1	Apparatus and method for writing and reading data to and from a virtual volume of redundant storage devices	20030304	711/114
US 6529822 B1	Navigation system with zoomed maneuver instruction	20030304	701/206
US 6529157 B1	Radar signature evaluation apparatus	20030304	342/173
US 6521853 B1	Method and apparatus for sorting semiconductor devices	20030218	209/571
US 6519528 B2	Vehicle navigation apparatus providing proper guidance for off-road net conditions	20030211	701/211
US 6516268 B2	Bundled map guide	20030204	701/208
US 6493630 B2	Bundled map guide	20021210	701/208
US 6487633 B1	Methods and systems for accessing disks using forward and reverse seeks	20021126	711/112
US 6487305 B2	Deformed map automatic generation system including automatic extraction of road area from a block map and shape deformation of at least one road area drawn in the map	20021126	382/113
US 6484235 B1	Methods and systems for dynamically distributing disk array data accesses	20021119	711/114
US 6476794 B1	System switch	20021105	345/161
US 6466735 B1	Optical disk and reproduction apparatus for producing optical disk	20021015	386/126
US 6453235 B1	Vehicle navigation apparatus providing proper guidance for off-road net conditions	20020917	701/211
US 6431669 B1	Method and apparatus for information storage in a portable print roll	20020813	347/2
US 6428224 B1	Error mapping technique for a printer	20020806	400/582
US 6425052 B1	Load balancing configuration for storage arrays employing mirroring and striping	20020723	711/114
US 6424933 B1	System and method for non-uniform scaled mapping	20020723	703/2
US 6421604 B1	Map display apparatus for motor vehicle	20020716	701/208
US 6421132 B1	Method and apparatus for rapid range imaging	20020716	356/602
US 6415226 B1	Method and system for providing safe routes using a navigation system	20020702	701/210
US 6415224 B1	Display method and apparatus for navigation system	20020702	701/208
US 6411868 B1	Method for identifying a stationary state of a vehicle	20020625	701/1
US 6401027 B1	Remote road traffic data collection and intelligent vehicle highway system	20020604	701/117
US 6397145 B1	Navigation system with complex maneuver instruction	20020528	701/211
US 6389509 B1	Memory cache device	20020514	711/113

US 6384834 B1	Three-dimensional simulator apparatus and image synthesis method using texture computation and texture information storage	20020507	345/582
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US 6374183 B1	Vehicle guidance method for navigation system	20020416	701/211
US 6374181 B1	Navigation apparatus and navigation method for movable body	20020416	701/208
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US 6362869 B1	Authentication system for camera print rolls	20020326	355/18
US 6360168 B1	Navigation apparatus	20020319	701/211
US 6359571 B1	Broadcasting type information providing system and travel environment information collecting device	20020319	340/988
US 6351706 B1	Navigation apparatus with navigation data processor and man-machine interface	20020226	701/208
US 6347279 B1	Car navigation system	20020212	701/208
US 6346942 B1	Bird's-eye view forming method, map display apparatus and navigation system	20020212	345/427
US 6335695 B1	Map display apparatus	20020101	340/995.14
US 6330858 B1	Method and system for scrolling a map display in a navigation application	20011218	101/208
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US 6315200 B1	Encoded data card reading system	20011113	235/454
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	Method for producing a cellularly structured environment map of a self-propelled, mobile unit that orients itself in the environment at least with the assistance of sensors based on wave reflection		
US 5677836 A	Visual incremental turn detector	19971014	701/23
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US 5638279 A	Device for displaying cartographic information, method for displaying cartographic information, navigation system provided with the device and vehicle provided with the navigation system	19970610	701/200
US 5629854 A	Linear cell satellite system	19970513	701/207
US 5621415 A	System for scheduling read ahead operations if new request is sequential of last n last read requests wherein n is different on independent activities	19970415	342/354
US 5619723 A	Controller for a recording apparatus	19970408	710/3
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US 5568030 A	Opto-mechanical instrument to accurately measure linear distances on flat or curved surfaces with incrementing	19961022	318/587
US 5560119 A	Method to convert bitmaps to monochrome data	19961001	33/773
US 5548689 A	Disk drive controller accepting first commands for accessing composite drives and second commands for individual diagnostic drive control wherein commands are transparent to each other	19960820	358/1.9
US 5530960 A	Travel guiding apparatus for vehicle	19960625	710/5
US 5521826 A	Method and controller for minimizing reads during partial stripe write operations to a disk drive	19960528	701/208
US 5506977 A	Automobile navigation guidance, control and safety system	19960409	711/155
US 5504482 A	Compression network displaced phase center electronic correlator	19960402	340/995.13
US 5489906 A	Travel control method, travel control device, and mobile robot for mobile robot systems	19960206	342/25R
US 5488277 A	System for scheduling readahead operations if new request is within a proximity of N last read requests wherein N is dependent on independent activities	19960130	318/587
US 5483641 A		19960109	710/3

US 5473761 A	Controller for receiving transfer requests for noncontiguous sectors and reading those sectors as a continuous block by interspersing no operation requests between transfer requests	19951205	711/4
US 5457772 A	Method to convert bitmaps to monochrome data	19951010	358/1.9
US 5438207 A	Electron beam direct writing system for ULSI lithography with facilitated rotation and gain corrections of shot patterns and electron beam direct writing method for same	19950801	250/492.23
US 5430655 A	Navigation system for use in vehicle	19950704	701/209
US 5428544 A	Traffic information inter-vehicle transference and navigation system	19950627	701/117
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US 5343204 A	Auto-focusing correction for rotational acceleration effects on inverse synthetic aperture radar images	19940830	342/25R
US 5313626 A	Disk drive array with efficient background rebuilding	19940517	714/5
US 5313585 A	Disk drive array with request fragmentation	19940517	711/201
US 5303159 A	Navigation system with off-route detection and route recalculation	19940412	701/210
US 5291412 A	Navigation system	19940301	701/211
US 5291318 A	Holographic member for a real-time clock in a raster output scanner	19940301	359/17
US 5289167 A	Display apparatus capable of processing distance information	19940222	340/461
US 5274818 A	System and method for compiling a fine-grained array based source program onto a course-grained hardware	19931228	717/149
US 5274387 A	Navigation apparatus for vehicles	19931228	342/451
US 5271012 A	Method and means for encoding and rebuilding data contents of up to two unavailable DASDs in an array of DASDs	19931214	714/6
US 5265024 A	Pilots automated weather support system	19931123	701/200
US 5262775 A	Navigation system with off-route detection and route recalculation	19931116	340/995.21
US 5255352 A	Mapping of two-dimensional surface detail on three-dimensional surfaces	19931019	345/582
US 5233168 A	Method of deskewing an image	19930803	235/456
US 5223981 A	Lens position control device	19930629	359/698
US 5204814 A	Autonomous lawn mower	19930420	701/25
US 5202661 A	Method and system for fusing data from fixed and mobile security sensors	19930413	340/522
US 5179329 A	Travel control method, travel control device, and mobile robot for mobile robot systems	19930112	318/587
US 5170468 A	Graphics system with shadow ram update to the color map	19921208	345/537
US 5131080 A	Graphics frame buffer with RGB pixel cache	19920714	345/557
US 5115238 A	Calibration apparatus of angular velocity sensor in self-contained navigational system	19920519	340/988
US 5102137 A	Divided table gaming machine	19920407	273/143R

US 5097426 A	Printer controlling apparatus	19920317	358/1.11
US 5091721 A	Acoustic display generator	19920225	345/656
US 5084831 A	Printer and printing method	19920128	358/1.17
US 5072226 A	Radiometer system incorporating a cylindrical parabolic reflector and minimum redundancy array feed	19911210	342/351
US 5067249 A	Map scaling instrument	19911126	33/773
US 5056044 A	Graphics frame buffer with programmable tile size	19911008	345/568
US 5031104 A	Adaptive in-vehicle route guidance system	19910709	701/209
US 5029105 A	Programmable pipeline for formatting RGB pixel data into fields of selected size	19910702	345/539
US 5016007 A	Apparatus for displaying travel path	19910514	340/995.22
US 4993662 A	Apparatus for guiding a missile	19910219	244/3.17
US 4990925 A	Interferometric radiometer	19910205	342/424
US 4977509 A	Personal multi-purpose navigational apparatus and method for operation thereof	19901211	701/207
US 4965751 A	Graphics system with programmable tile size and multiplexed pixel data and partial pixel addresses based on tile size	19901023	345/572
US 4961153 A	Graphics frame buffer with strip Z buffering and programmable Z buffer location	19901002	345/422
US 4958302 A	Graphics frame buffer with pixel serializing group rotator	19900918	345/544
US 4912474 A	Radar apparatus for realizing a radio map of a site	19900327	342/191
US 4905166 A	Method of generating line parts	19900227	345/443
US 4899293 A	Method of storage and retrieval of digital map data based upon a tessellated geoid system	19900206	345/423
US 4886699 A	System of navigation for vehicles	19891219	701/209
US 4875227 A	Anti-scatter grid system	19891017	378/154
US 4852018 A	Massively parallel real-time network architectures for robots capable of self-calibrating their operating parameters through associative learning	19890725	700/259
US 4829552 A	Anti-scatter grid system	19890509	378/154
US 4815012 A	Apparatus and method for real time reconstruction of digital map data	19890321	340/995.18
US 4793279 A	Ice-cream dispenser	19881227	118/16
US 4759548 A	Realistic golf-simulating board game	19880726	273/245
US 4682160 A	Real time perspective display employing digital map generator	19870721	345/421
US 4679189 A	Alternate routing arrangement	19870707	370/396
US 4674702 A	Cassette system having quick connect feature	19870623	242/332.4
US 4672280 A	Mobile robot calling system	19870609	318/587
US 4660037 A	Current location indication apparatus for use in an automotive vehicle	19870421	340/990
US 4630900 A	System for introducing by reflection additional information into binoculars	19861223	359/401
US 4628456 A	Course guidance system	19861209	701/212
US 4600886 A	Apparatus for orienting a magnetometer	19860715	324/301
US 4586038 A	True-perspective texture/shading processor	19860429	345/586

US 4571684 A	Map display system for vehicles	19860218	701/200
US 4555852 A	Hand device for determining vehicle position	19851203	33/27.02
US 4532514 A	Course guidance system with speeded-up display function	19850730	340/995.19
US 4513378 A	High-accuracy navigating apparatus with step-driven projected chart	19850423	701/217
US 4499491 A	Moving map display using optical tunnel	19850212	348/107
US 4496996 A	Running guide system	19850129	360/12
US 4494200 A	Process and apparatus for fixing the position of a moving vehicle on a map	19850115	701/207
US 4427994 A	Color separator for a video display generator	19840124	348/101
US 4422738 A	Hand-held map viewer and navigational aid	19831227	353/11
US 4417309 A	Aircraft navigation computer	19831122	701/217
US 4393915 A	Web securing device	19830719	160/395
US 4388608 A	Vehicle location monitoring system	19830614	340/990
US 4359732 A	Topographical mapping radar	19821116	342/191
US 4321601 A	Three dimensional, azimuth-correcting mapping radar	19820323	342/25R
US 4312577 A	Motor vehicle map display system	19820126	353/12
US 4299575 A	Running lights simulator	19811110	434/11
US 4254568 A	Aerial navigation instruments	19810310	40/518
US 4227194 A	Synthetic array processor	19801007	342/25R
US 4219950 A	Device for positioning a pattern strip chart	19800902	40/518
US 4149783 A	Miniature map viewer with aligning reticle	19790417	353/11
US 4135190 A	Navigational plotter	19790116	342/452
US 4107783 A	System for processing arithmetic information using residue arithmetic	19780815	708/491
US 4037939 A	Variable field of view, variable magnification lens assembly for miniature image viewer	19770726	359/672
US 3997255 A	Arcuate optical scanning for N-S movement in a map display navigational apparatus	19761214	353/12
US 3952299 A	Data line correlator	19760420	342/64
US 3925918 A	Dashboard-mounted automatic route information display device	19751216	40/483
US 3918163 A	Distance measuring devices	19751111	33/773
US 3909105 A	Optical image scanner with beam stabilization	19750930	359/201
US 3897150 A	Scanned laser imaging and ranging system	19750729	356/5.04
US 3897144 A	Movable optical scanning for N-S movement in a map display navigational apparatus	19750729	353/11
US 3891243 A	Automatic route information display	19750624	283/35
US 3889386 A	Method and apparatus for outdoor position locating including development of an area map by relative bearings of visible landmarks	19750617	33/228
US 3864513 A	COMPUTERIZED POLARIMETRIC TERRAIN MAPPING SYSTEM	19750204	348/147
US 3863365 A	STAR FINDER	19750204	434/289
US 3832909 A	DASHBOARD-MOUNTED AUTOMATIC ROUTE INFORMATION DISPLAY	19740903	74/12
US 3824591 A	DEVICE ILLUMINATED MAP	19740716	340/815.52

US 3769710 A	ELECTRONIC CELESTIAL NAVIGATION MEANS	19731106	33/320
US 3725919 A	METHOD AND APPARATUS FOR PLOTTING VESSEL POSITION	19730403	342/61
US 3725915 A	HIGH RESOLUTION MAPPING SYSTEM	19730403	342/25R
US 3725662 A	INFRARED SCANNER SYSTEM HAVING INCREASED RESOLUTION AND METHOD OF USING SAME	19730403	250/334
US 3715716 A	PROGRESSIVE DISPLAY SCREEN	19730206	340/995.26
US 3713236 A	MOTOR DRIVEN MAP VIEWER AND TRACKING DEVICE	19730130	40/473
US 3708666 A	MULTIPLE DETECTOR SCANNER WITH DETECTORS SPACED ACROSS SCAN DIRECTION	19730102	250/334
US 3681752 A	VEHICLE SELF-TRACKING SYSTEM	19720801	340/995.26
US 3669382 A	STRIP POSITIONING APPARATUS	19720613	242/334.2
US 3662384 A	DOPPLER MAPPING RADAR	19720509	342/58
US 3658337 A	BOARD GAME APPARATUS	19720425	273/254
US 3652836 A	NAVIGATION DIRECTOR SYSTEM	19720328	701/203
US 3641484 A	CONTOUR-MAPPING SYSTEM	19720208	367/12
US 3624650 A	METHOD AND APPARATUS FOR MAPPING PLANETS	19711130	342/145
US 3598980 A	METHOD OF AND APPARATUS FOR DETERMINING AREA GRAVITY	19710810	702/17
US 3589327 A	PORTABLE PILOT AIR DEVICE	19710629	116/39
US 3576148 A	STRIP-MAP-PREPARATION DEVICE INCLUDING A CUTTER AND WORK-HOLDER COMBINATION	19710427	83/455
US 3570445 A	MAP TRACKER	19710316	116/29
JP 2003010257 A	ROUTE INFORMATION CAPTURING WHEELCHAIR	20030114	
JP 2002257848 A	METHOD OF VERIFYING ULTRAHIGH SPEED OF ROTATION	20020911	
JP 2002140683 A	PEDOMETER INTEGRATED WITH BENT LINE LENGTH MEASURING INSTRUMENT (REGISTERED TRADEMARK)	20020517	
JP 2001071966 A	MOTORCYCLE EQUIPPED WITH NAVIGATION SYSTEM	20010321	
JP 2000193465 A	NAVIGATION DEVICE AND RECORDING MEDIUM	20000714	
JP 411311526 A	TWO-POINT ROUTE GUIDE MAP PRINTER AND CAR NAVIGATION DEVICE EQUIPPED WITH SAME DEVICE	19991109	
JP 11202940 A	UNMANNED CARRIER	19990730	
JP 10089988 A	ROUTE GUIDANCE APPARATUS FOR VEHICLE	19980410	
JP 09257496 A	ON-BOARD NAVIGATION APPARATUS	19971003	
JP 09160484 A	MAP DISPLAY DEVICE AND ITS METHOD	19970620	
JP 08326894 A	CONTROLLER FOR AUTOMATIC TRANSMISSION	19961210	
JP 07225132 A	DEVICE FOR SELF-RECORDING DRIVEN ROUTE OF VEHICLE ON MAP IN INTERLOCKING WITH DRIVE OF VEHICLE	19950822	
JP 07110709 A	RUNNING MAP GENERATING METHOD FOR MOVING ROBOT	19950425	
JP 07019894 A	TARGET DISTANCE INPUT DEVICE AND RUNNING DATA DISPLAY PROVIDED WITH THIS TARGET DISTANCE INPUT DEVICE	19950120	
JP 06201392 A	METHOD FOR FORMING ROAD MAP DATA	19940719	
JP 05005627 A	NAVIGATION PICTURE DISPLAY DEVICE	19930114	

JP 03022109 A	MOBILE ROBOT	19910130
JP 61169710 A	LENGTH MEASURING DEVICE	19860731
JP 61122517 A	ROTARY ENCODER	19860610
EP 1445583 A1	Navigation system with progression indication	20040811
GB 2259801 A	Rotating route-following guide	19930324
NN87034326	Two- and Three-Dimensional Image Display	19870301
WO 2003093768 A	Mobile client device map displaying method for in-vehicle electronic routing map, involves rendering image of map area in rotated frame of reference on device based on downloaded map data along user route from server	20031113
DE 20210819 U	Holder with a map strip, preferably for attachment to a motorcycle fuel tank, comprises a housing with two rotatable parallel rolls, and a map strip attached to and possibly coiled onto the rolls	20021002
US 20020093464 A	Rotating pedestrian information display apparatus e.g. for street maps, transportation routes, has bracket with information display panel, which is rotatable about support pole	20020718
WO 200171485 A	Route map display optimizing method in on-line mapping services, involves orienting diagonal of bounding box to specific amount by rotating route map	20010927
JP 2001124574 A	Vehicle navigation apparatus computes route to destination based on map data read corresponding to output of sensors and displays map corresponding to read map data	20010511
GB 2329470 A	Combination map and compass for route finding	19990324
JP 10289014 A	Moving body, e.g. truck, travel route detector - has processor that processes positional data received from transmitter, and rotation angle and distance of moving body from detectors	19981027
WO 9636461 A	Mobile robotic system for removing paint from aircraft - has vertically extending column which interfaces with horizontally extending arm to deliver high pressure water to aircraft's surface	19961121
EP 699895 A	Information processor for use in vehicle navigation system - drives motor of CD-ROM containing e.g. route map data at lower speed unless specific command signal is received or when given conditions are met to increase motor life	19960306
CH 684288 A	Navigation appts. incorporated in vehicle dashboard - automatically applies navigational angle in form of luminous reflections on windscreen, in which direction of destination is established using compass and computer	19940815
US 5233168 A	De-rotating correcting skew of scanned image in e.g. video camera optical printer - involves performing series of area-limited vertical and horizontal pixels shifts upon mapped image	19930803
GB 2259801 A	Rotating route following guide - has map with apertured cover sheet to allow selective viewing of route	19930324
SU 1770736 A	Telescope for observing stars - uses rotating celestial map and sighting device fixed on polar axle while scale on sighting device indicate declination	19921023

JP 03253980 A	Power transmission line information managing system using map - registers line drawn on map by cutting strip containing required area and rotating so that line is horizontal NoAbstract Dwg 2/5	19911113
US 4993662 A	Missile guidance system e.g. for aircraft - has film drum scanner with strip map of land transverse to missile flight path and second strip map parallel to flight path to guide missile	19910219
DE 3831893 A	Travel map reel for single-handed operation - has a web rotated via manual control to bring required map section into viewing position	19900329
EP 338405 A	Movable electronic information display unit for motor vehicle - has stored information selectable to horizontally and vertically adjustable LCD in vehicle instrument panel	19891025
EP 155972 A	Case for map or street plan - has internal rollers, on which map is wound, and transparent cover for viewing desired map section	19851002
EP 170655 A	Optical system for binoculars - blends extra information into field-of-view using picture rotating prism moved by pivoted arm	19860212
EP 98767 A	Route or astrological map forming appts. using photographic slides - focuses image on to photosensitive record carrier in programmed sequence using motor driven rotary disc under keyboard control	19840118
DE 3028748 A	Viewing frame for road map - has rotatable spools to bring required area into view through transparent window	19810219
US 4095800 A	Board game with geographical theme - has map marked with routes over countries and playing pieces moved according to rotatable selector	19780620
DE 2641437 A	Display device for car driver - projects map on screen and scans route by oscillatory movement of constant amplitude	19780216
DE 2443115 A	Double sided blackboard and wall chart system - is swivel mounted for securing in infinitely variable positions both vertically and in extension	19760408
US 3832909 A	Automobile dashboard-mounted route display device - comprises a rotating map with straight-line projection of information	19740903